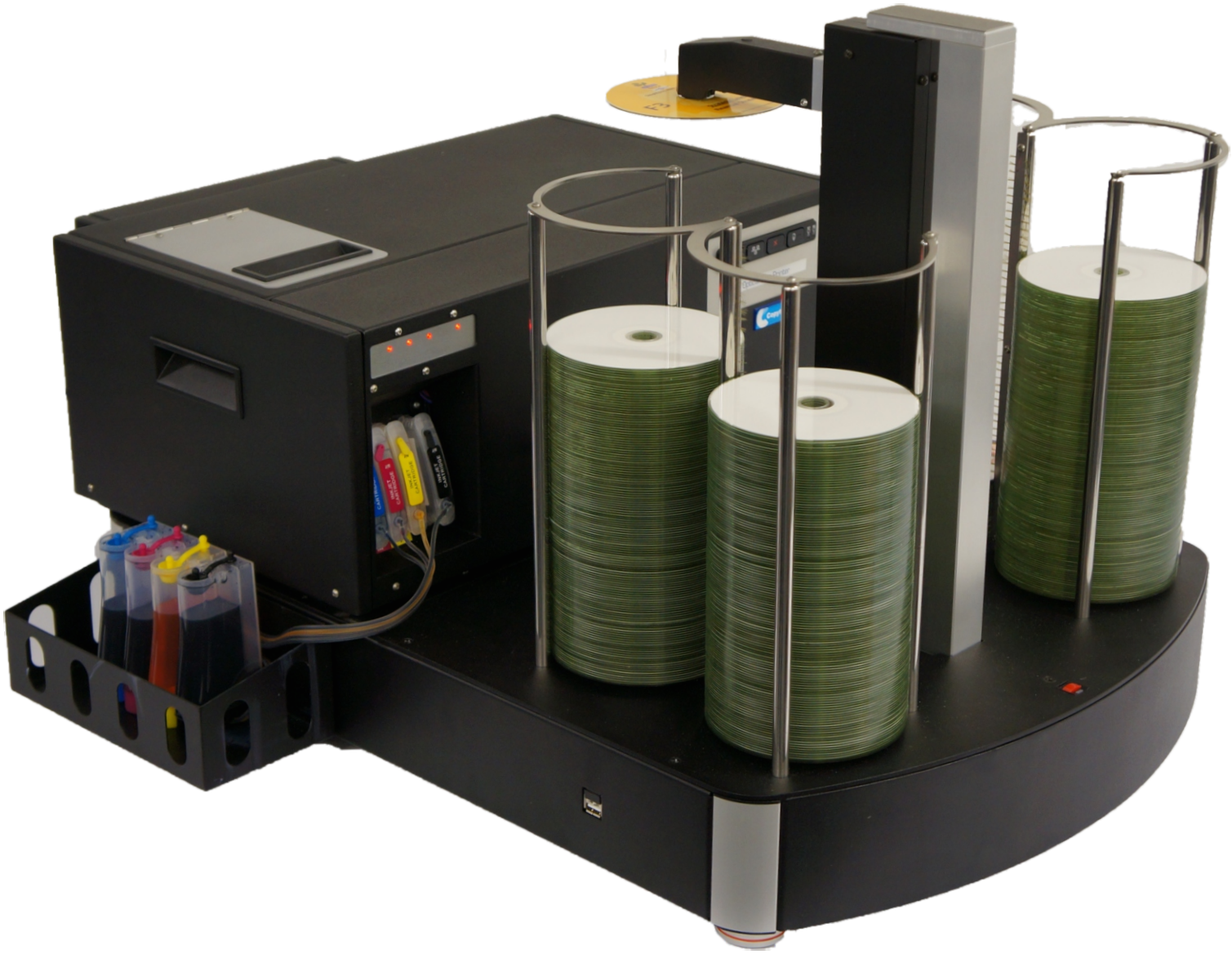
Copytrax



Artmaster 600 User Guide

Instructions for installing and using your printer

Version 1.0	25/09/2013	First Release	JR

Safety information

Warning:
This appliance must be earthed. Refer to the rating plate for the voltage and check that the appliance voltage corresponds to the supply voltage.
Important: *The wires in the mains lead fitted to this appliance are coloured in accordance with the following code:*
Green and yellow — Earth
Blue — Neutral
Brown — Live

Warnings, Cautions, and Notes

Warnings must be followed carefully to avoid bodily injury.

Cautions must be observed to avoid damage to your equipment.

Notes contain important information and useful tips on the operation of your printer.

WARNING

To avoid electrical shock hazards, unit covers should only be removed by authorised personnel.

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ENVIRONMENTAL PROTECTION

Waste electrical products should not be thrown away with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

Copytrax reserve the right to amend or modify the specifications and design criteria applying to these products.

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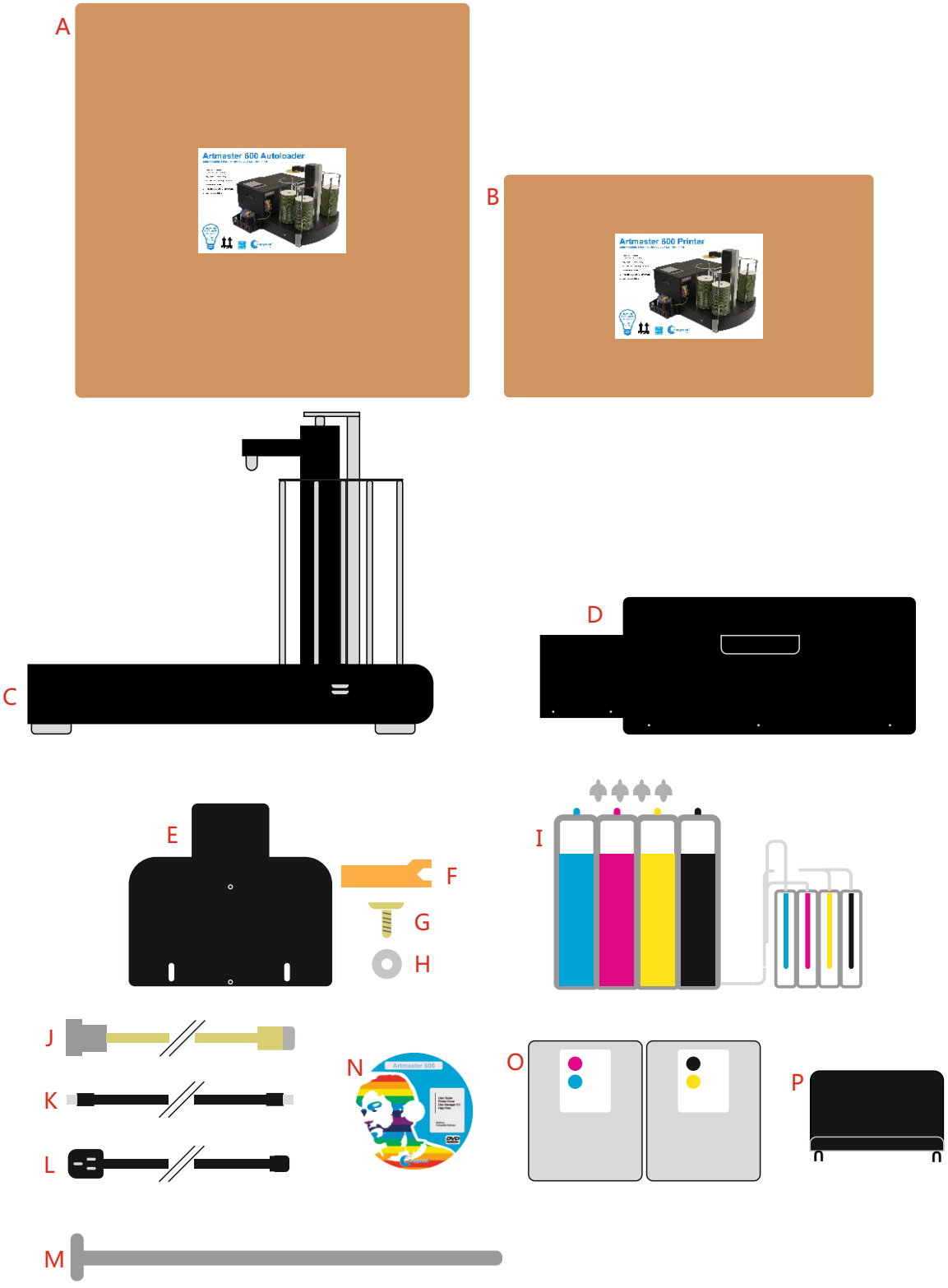
Box Contents and Unpacking.



A. Autoloader box	I. CISS (Continuous Ink Supply System with 4x air filters)
B. Printer box	J. Serial cable
C. Autoloader	K. USB cable x2 (x1 with in-built PC option)
D. Printer	L. Power lead x2
E. Printer base plate	M. Disc probe (for loading/unloading discs in the hoppers)
F. Spanner	N. Product DVD (contains drivers and software)
G. Screw x2	O. Print head x2 (CM and YK)
H. Washer x2	P. CISS bracket for printer

Autoloader and Printer Setup.

1. Place the Autoloader on a strong and level surface.

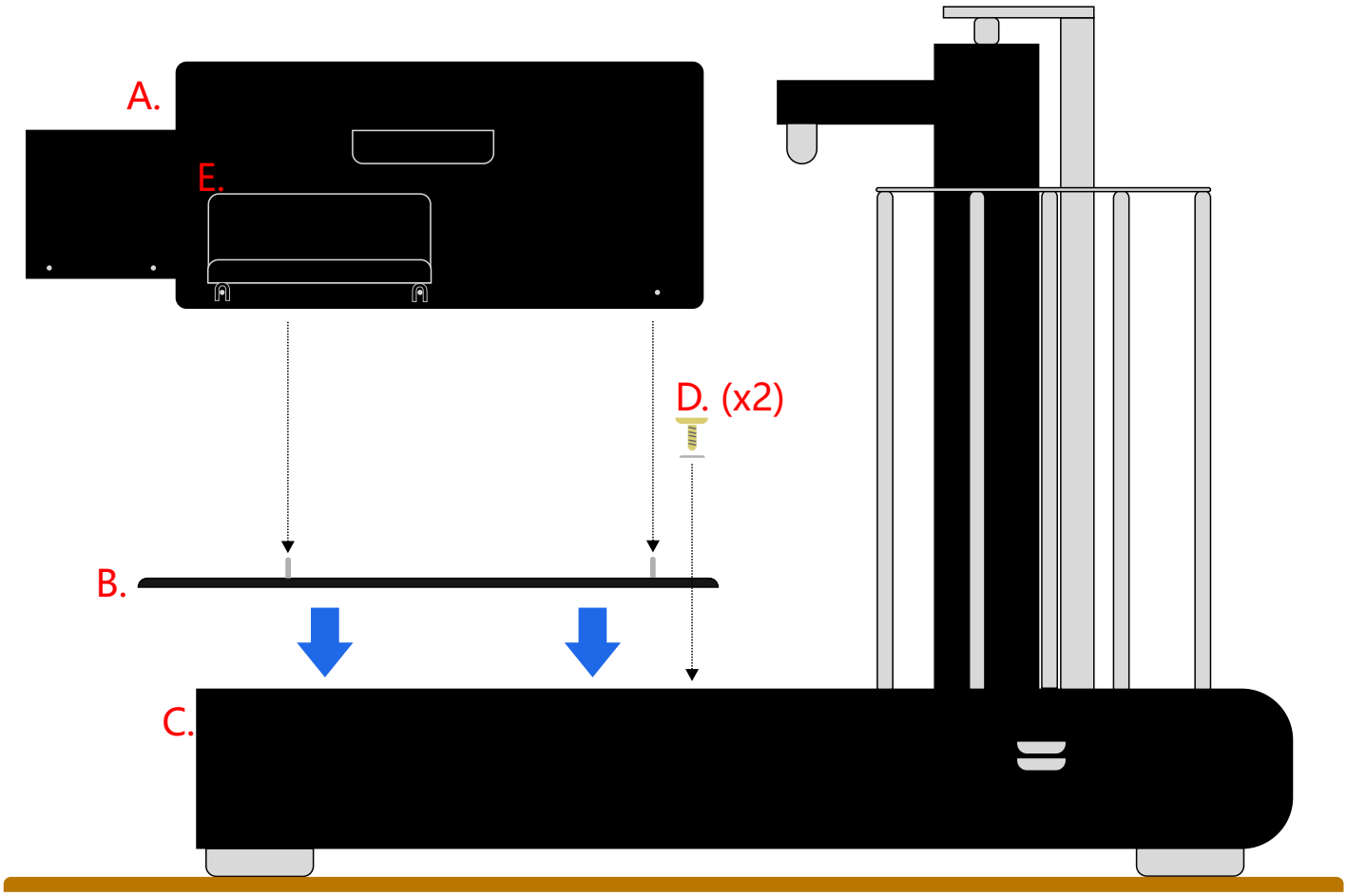
2. Place the printer base plate on the Autoloader as shown in the diagram below.

3. Attach the base plate to the Autoloader using the supplied screws. Add one washer (supplied) to each screw.

4. Lower the Printer on to the base plate. There are two locating spikes on the base plate that line up with corresponding holes on the underside of the printer.

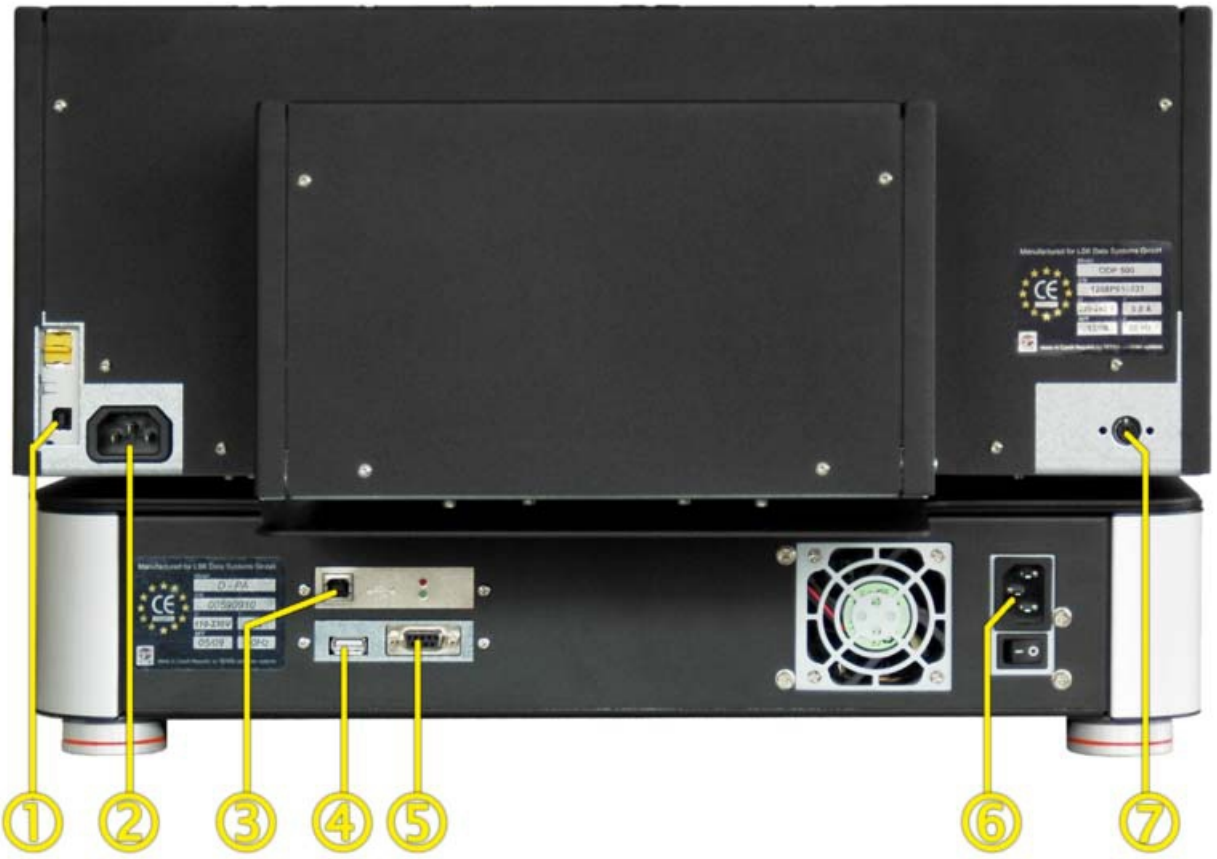
5. Place the magnetic CISS bracket on the side of the Printer in the position shown in the diagram below.

6. The alignment of the Printer on the Autoloader will be done later.



A. Printer
B. Printer Base Plate
C. Autoloader
D. Base Plate Fixing Screws and Washers
E. CISS Magnetic Bracket

Connections Diagram - Standard Version.



1. Printer USB port. Connect to position 4 using the USB cable.

2. Printer Power connector. Connect to mains power using a power lead.

3. USB port. Connect to your PC using the USB cable.

4. USB port. See point 1.

5. Printer control port. Connect to position 7 using the Serial cable.

6. Autoloader power connector. Connect to mains power using a power lead.

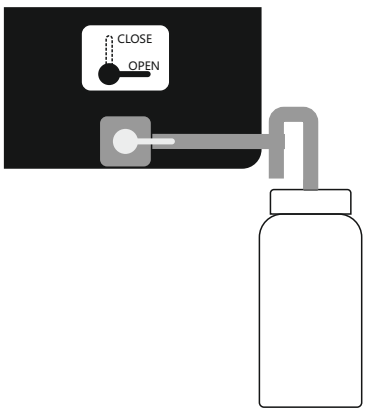
7. Printer control port. See point 5.

Waste Bottle

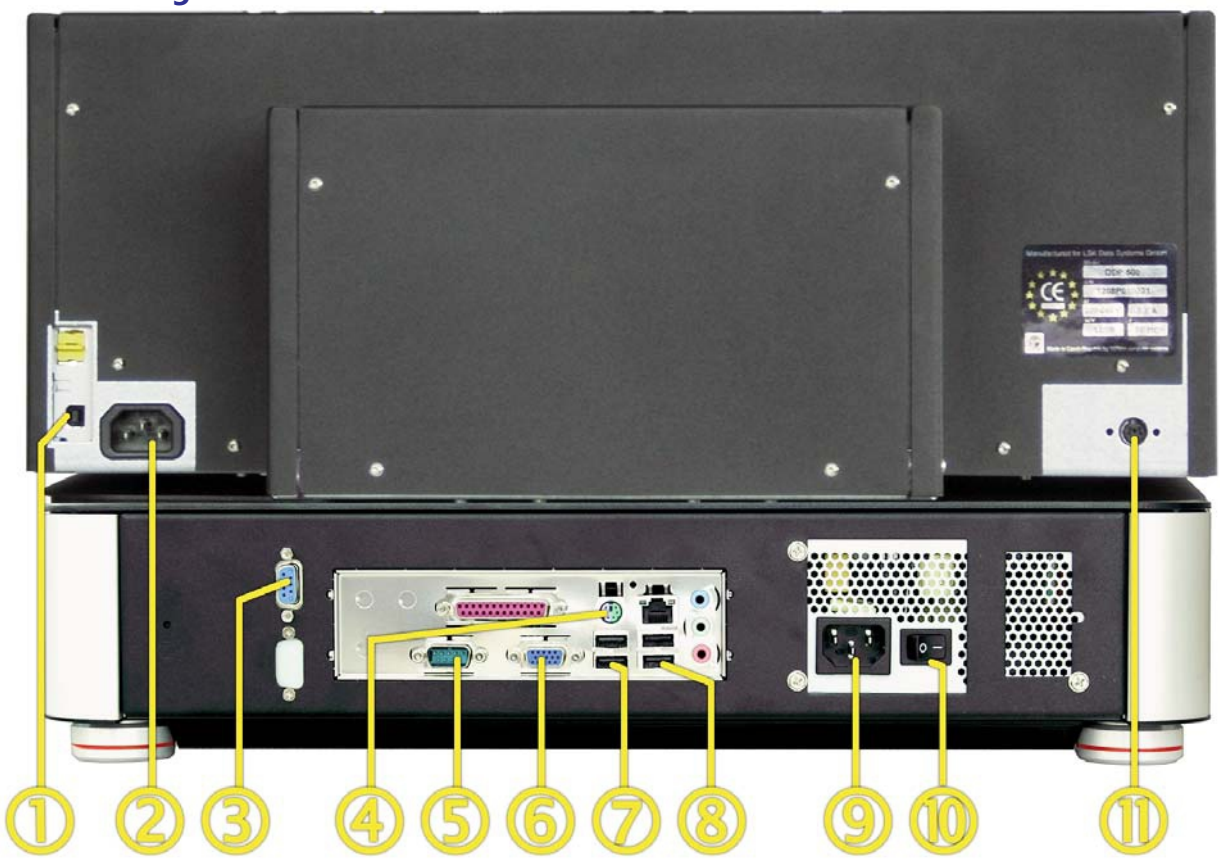
Connect the waste bottle to the waste tap on the rear right side of the printer using the supplied waste pipe.

Locate the waste bottle below the printer.

Set the waste tap to the OPEN position.



Connections Diagram - In-Built PC Version.



1. Printer USB port. Connect to position 8 using the USB cable.

2. Printer Power connector. Connect to mains power using a power lead.

3. Printer control port. Connect to position 11 using the Serial cable.

4. PS2 port. For a PS2 mouse, keyboard or dual mouse & keyboard connector.

5. RS232 port.

6. SVGA port. VGA Monitor connection.

7. USB port. For USB mouse and/or keyboard connections.

8. USB port. See point 1.

9. Autoloader power connector. Connect to mains power using a power lead.

10. Autoloader power switch. Turn on/off the Autoloader.

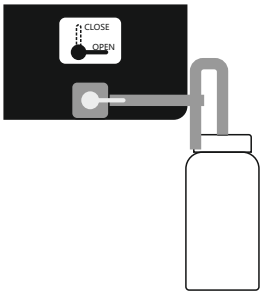
11. Printer control port. See point 3.

Waste Bottle

Connect the waste bottle to the waste tap on the rear right side of the printer using the supplied waste pipe.

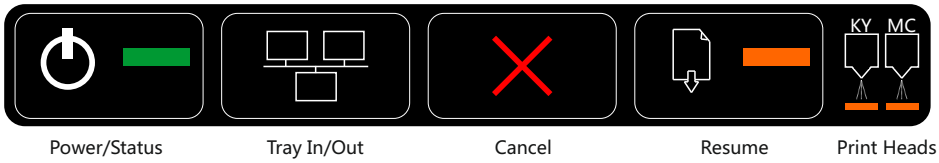
Locate the waste bottle below the printer.

Set the waste tap to the OPEN position.



Keypad Functions.

Printer keypad



Power/Status button:
Power on/off printer module
LED Off = Printer power off
LED On = Printer power on and printer in idle state
LED Flashing = Printing/Cleaning

Tray In/Out button:
Manually feed disc tray in or out of the printer module

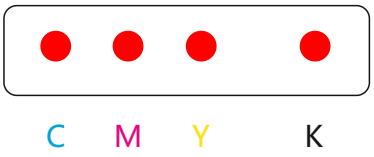
Cancel button:
Cancel current print operation

Resume button:
For error identification

Print Heads:
Shows current condition of the print heads
LED Off = Print head installed
LED On = Print head error
LED Flashing = Print head missing

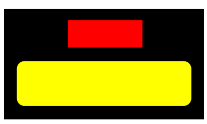
Cartridge LEDs

LED(s) Off = Normal operation
LED(s) On = Normal operation
LED(s) Flashing = Cartridge error



Autoloader On/Off Switch

Autoloader Off

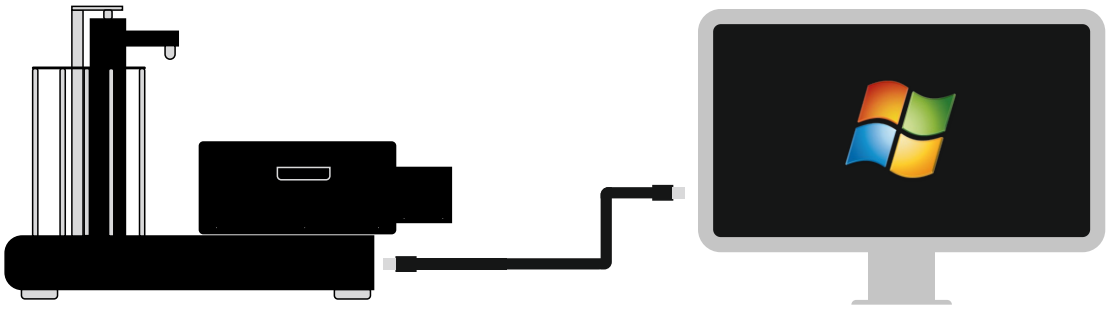


Autoloader On (Printer Off)

Autoloader On (Printer On)

Print Head and CISS Installation.

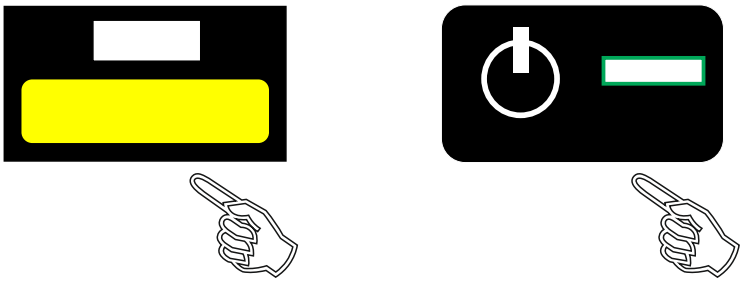
Check the Artmaster 600 is connected to a PC by USB cable.



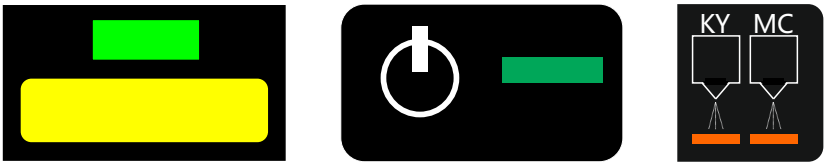
Check the Printer module has mains power connected.

Check the Autoloader has mains power connected and the rear switch is set to ON.

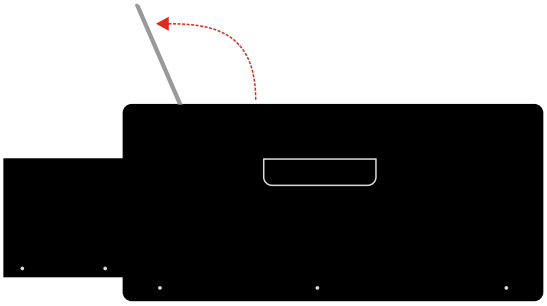
Switch on the Autoloader and Printer by pressing their respective power buttons.



Wait for the Autoloader to calibrate and the Printer to initialise. For the first-time initialisation the print head LEDs will flash to indicate the print heads are not installed.



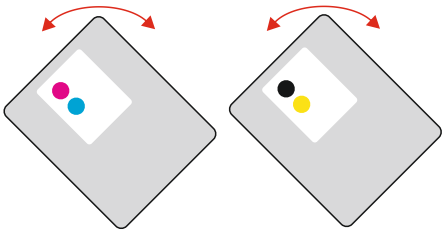
Open the Printer service hatch.



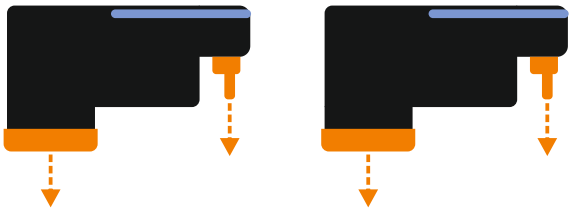
Wait for the print head carriage to move under the service hatch opening. If this does not happen automatically hold the RESUME button until you see the print head carriage under the service hatch opening.

Print Head and CISS Installation continued.

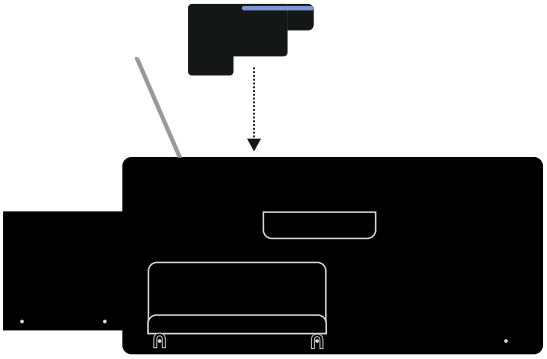
Shake each print head back and forth six times.



Remove each print head from its protective packaging and remove the two orange caps from each head.



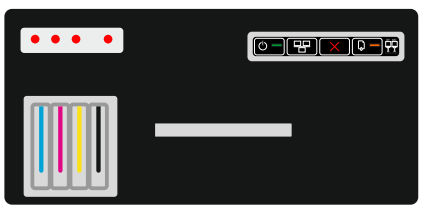
Open the blue carriage lid inside the printer service hatch and slide each print head in to its respective slot. The slots are labelled to indicate which slot is for which head.



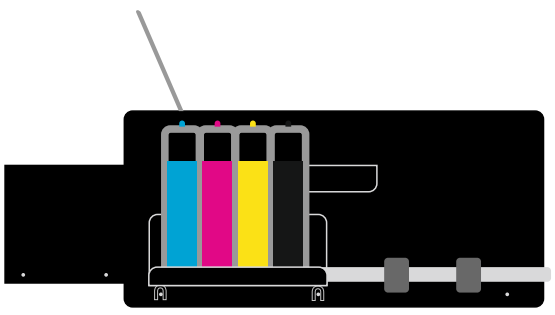
When each print head is properly seated in the carriage, close the blue lid.

Insert the four cartridges in to their marked housing in the front of the printer. Each cartridge has locating moulds to line up with the cartridge housing assembly. Push each cartridge in firmly for a tight fit.

Place the CISS supply tanks on the CISS bracket and route the ink feed pipes through the plastic clips. Make sure there are no tight folds on the ink feed pipes or this may stop a proper ink flow to the cartridges.



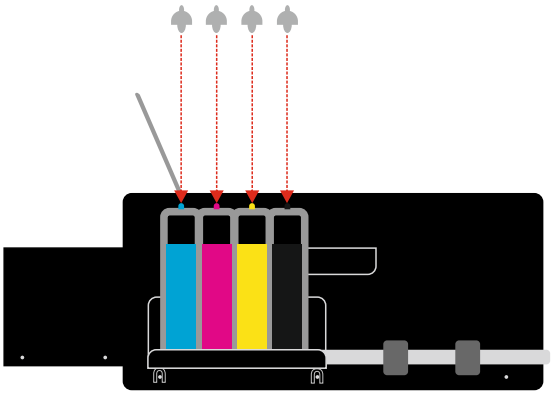
Printer front view with cartridges installed



Printer side view with CISS installed

Print Head and CISS Installation continued.

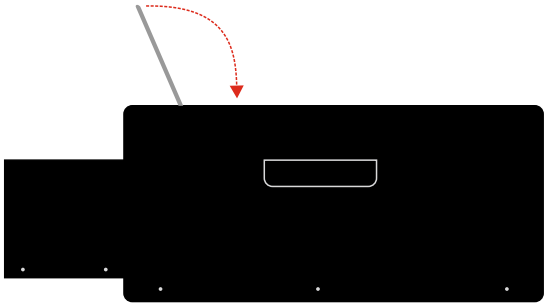
Open the smallest plug on the top of each ink supply tank and insert an air filter (one per colour).

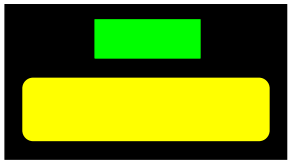


If there are any air gaps in the ink feed pipes, lift the supply tanks until the air gaps are no longer visible then place the tanks back on the CISS bracket.

Close the service hatch. The printer will now install the print heads, charge the ink supply and complete its initialisation. This may take several minutes to complete.

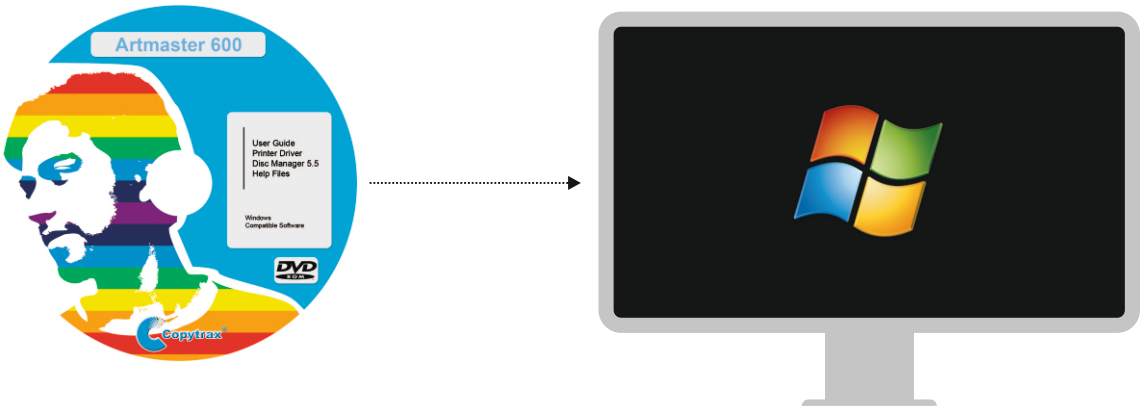
The power LEDs will be on, not flashing, when the system is ready.





Installing the Software.

Insert the Product DVD into your PC's DVD drive.



The disc menu will open automatically (loading times vary depending on the speed of your PC).

To run the disc manually, explore the disc contents in My Computer and open the file **autorun.exe.**

Install the drivers and software in the following order:

USB to Serial Driver

This driver allows proper communication between the Artmaster 600 system and your PC. To install select **Install USB to Serial Driver** and follow the onscreen installation wizard.

Disc Manager Production Management Software

Software to run your print jobs from. To install select **Install Disc Manager** and follow the onscreen installation wizard.

You will be prompted to select your Windows Operating System version and for the version of Disc Manager you wish to install.

Windows Operating System Version* = **Windows XP, Windows Vista or Windows 7.**

Disc Manager Version = **PA-Printer only.**

Printer Driver**

Follow the next section in this guide **Installing the Printer Driver**.

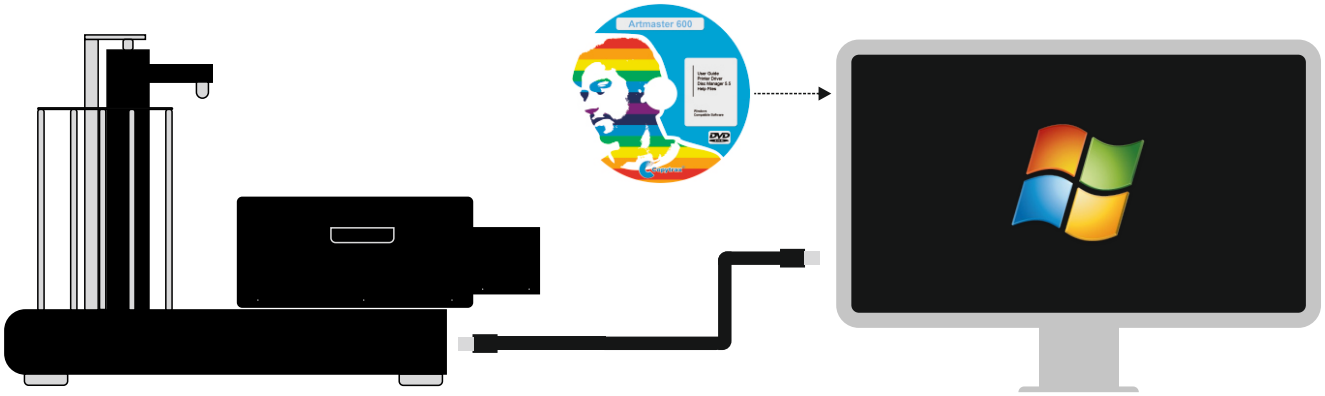
Calibration Tool

Utility to calibrate/adjust/test the Autoloader. To install select **Calibration Tool** and follow the onscreen installation wizard.

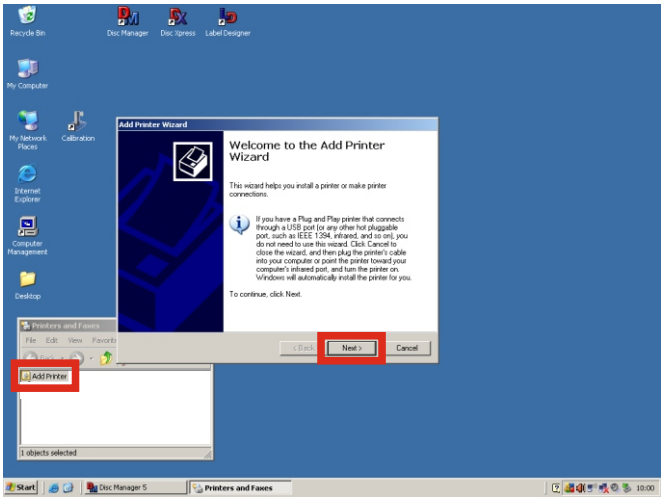
*The Artmaster 600 software and drivers are compatible with Windows XP, Windows Vista and Windows 7 only. **The printer driver currently has no installation wizard meaning the driver must be installed manually.

Installing the Printer Driver (Windows XP).

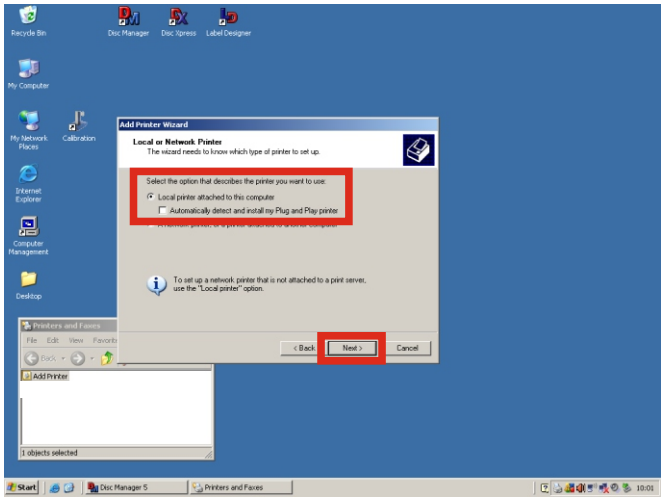
Make sure the Artmaster 600 system is powered on, connected to a PC and the product DVD is loaded into the PC's disc drive.



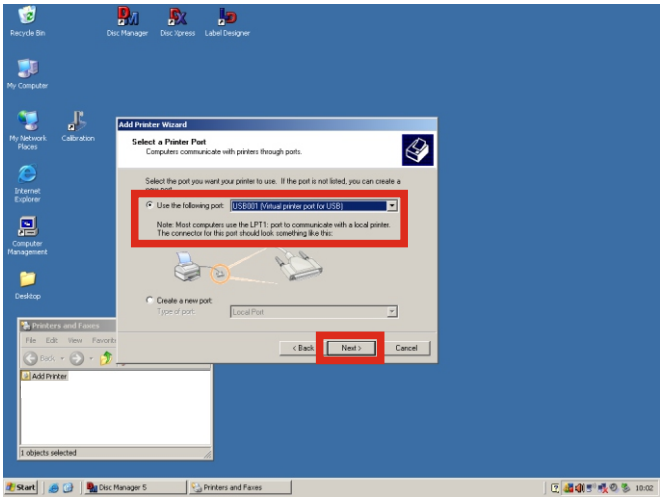
Open the Printers & Faxes menu from Windows Control Panel.



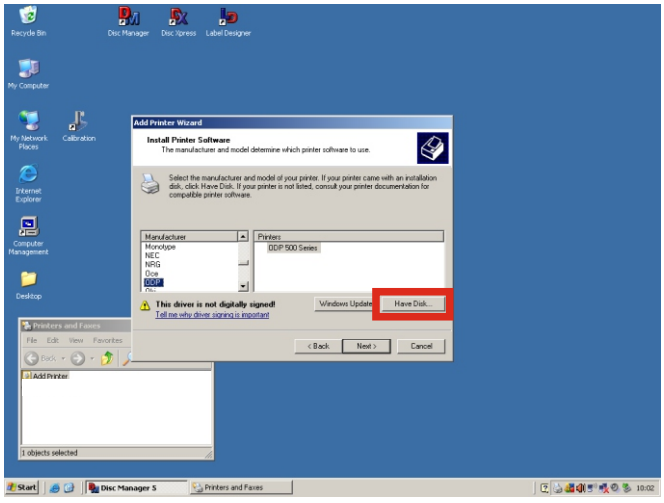
Select Add New Printer then Next in the Add Printer Wizard.



Select Local printer connected to this computer then Next. **Do not** check the box Automatically detect and install my Plug and Play printer.

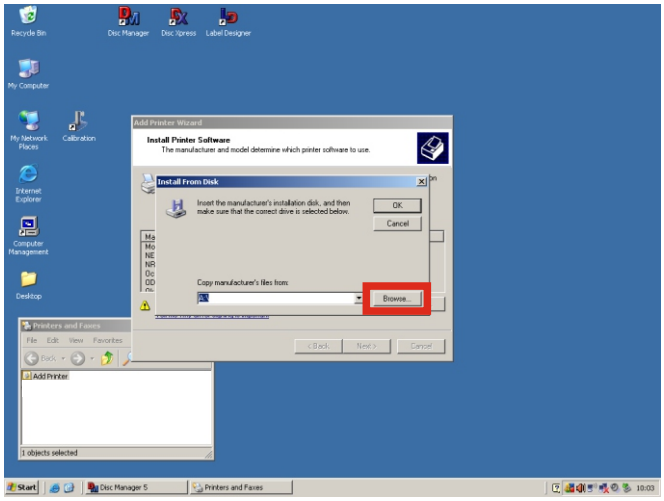


If prompted to select a port, choose any available USB port then select Next.

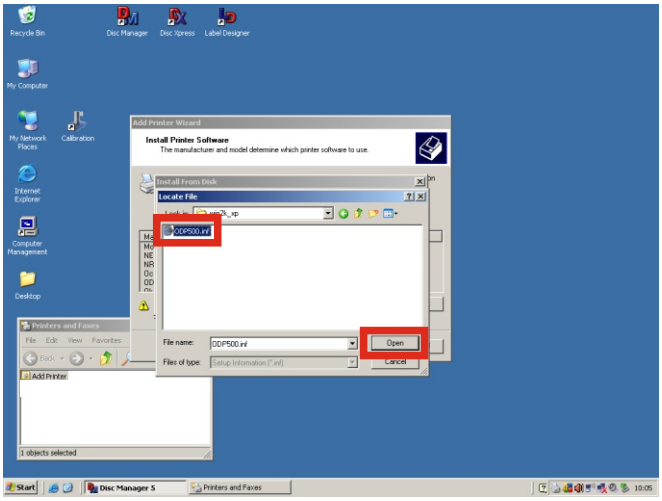


Select Have Disk...

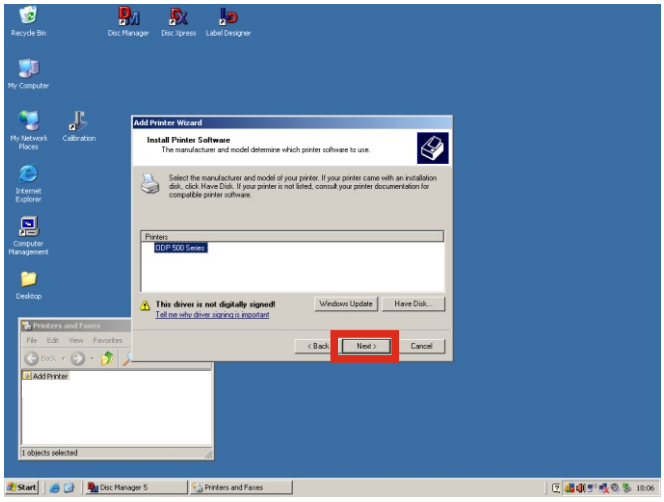
Installing the Printer Driver (Windows XP) continued.



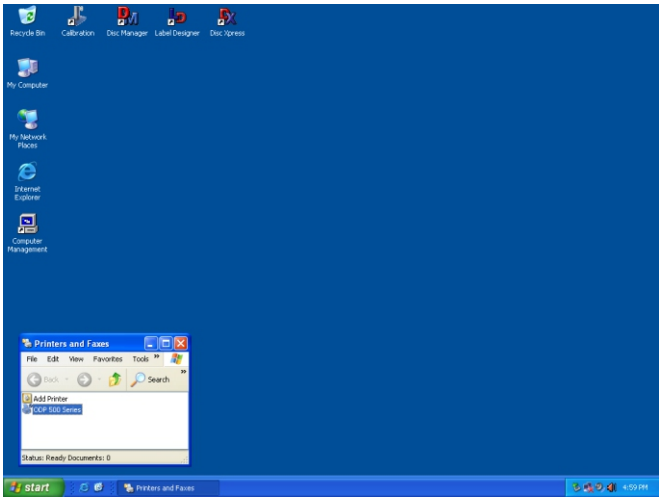
Select Browse...



Locate the driver .inf file on the product DVD, select Open then OK. File location:
Autoplay\Driver\ODP500_Driver.1.0.1.12.xp\ODP500.inf



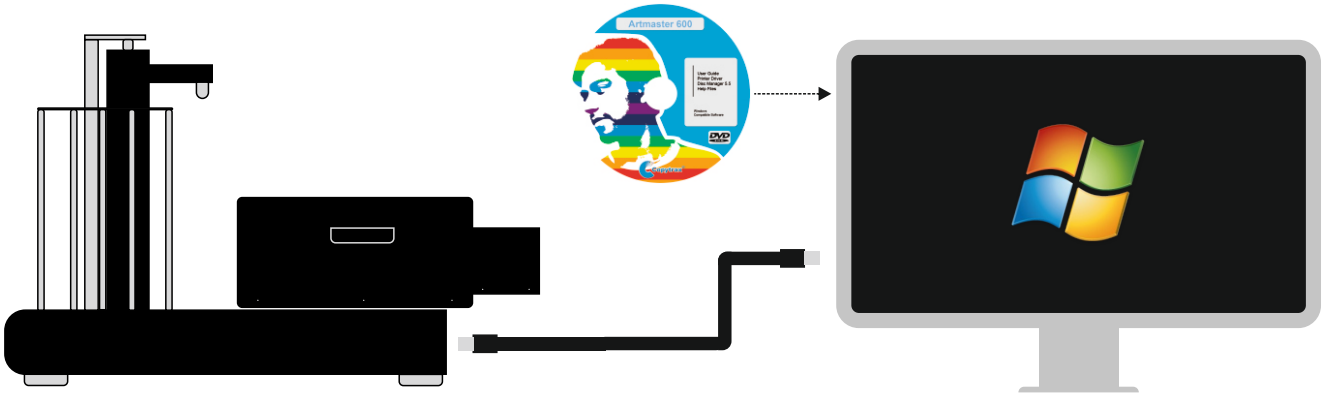
Select Next and follow the remainder of the wizard to complete the driver installation.



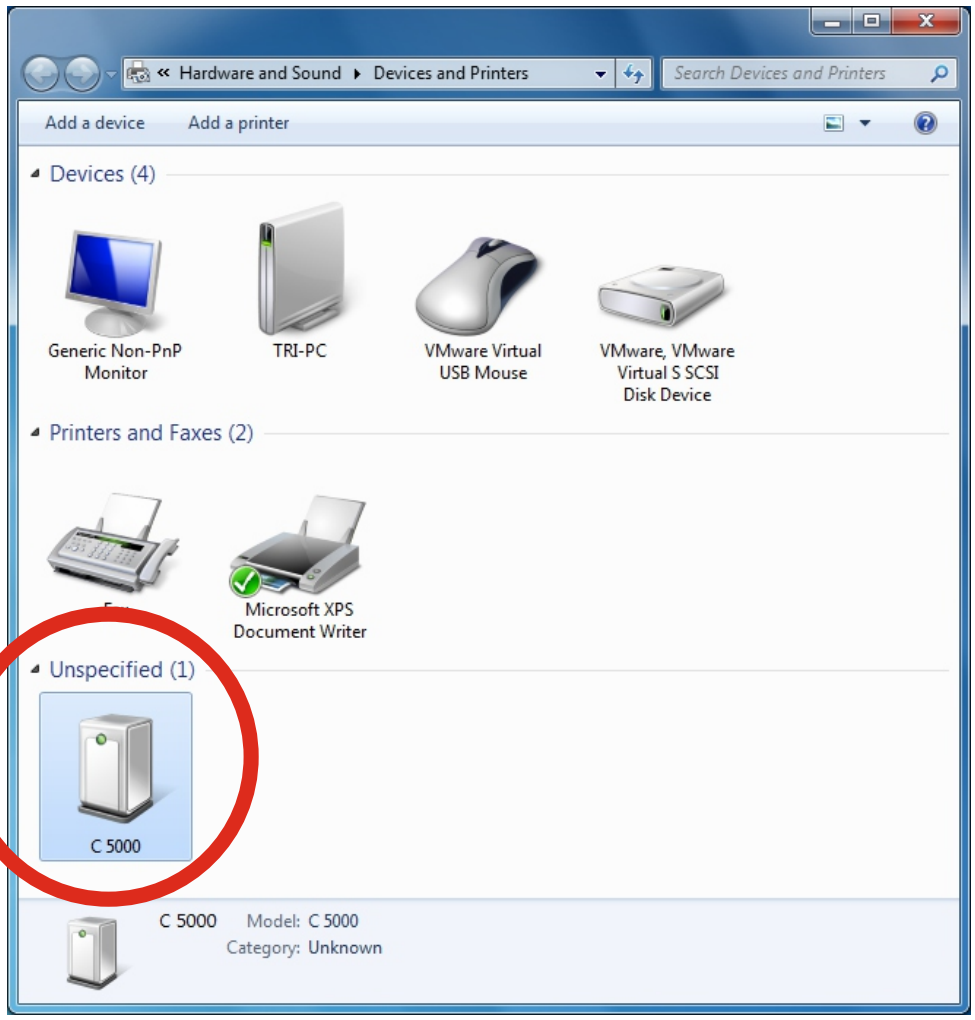
The printer is now installed as ODP500 Series. Make sure it is set as the default printer.

Installing the Printer Driver (Windows Vista & 7).

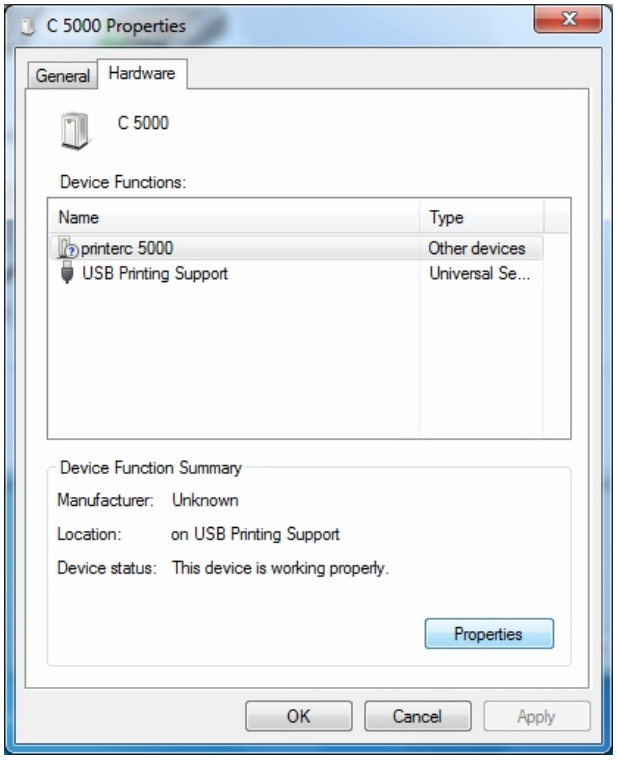
Make sure the Artmaster 600 system is powered on, connected to a PC and the product DVD is loaded into the PC's disc drive.



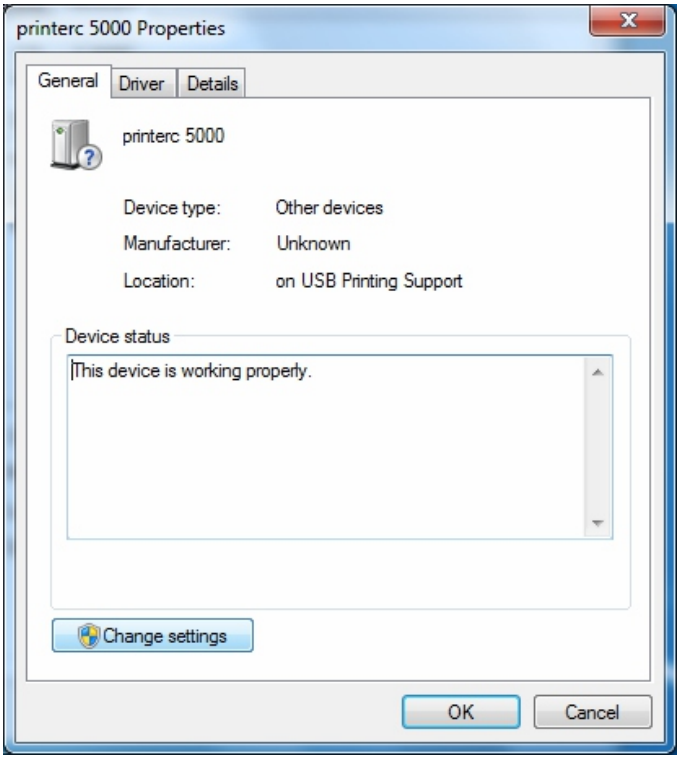
Open the Devices & Printers menu from Windows Control Panel and check the Unspecified section. Right click on the device listed here (usually labelled as C5000 or S1000) and select Properties.



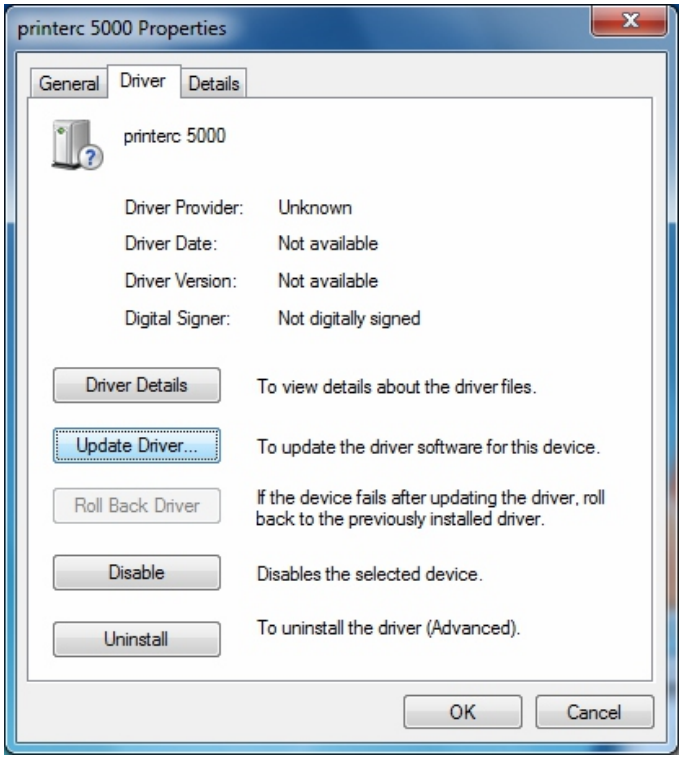
Installing the Printer Driver (Windows Vista & 7) continued.



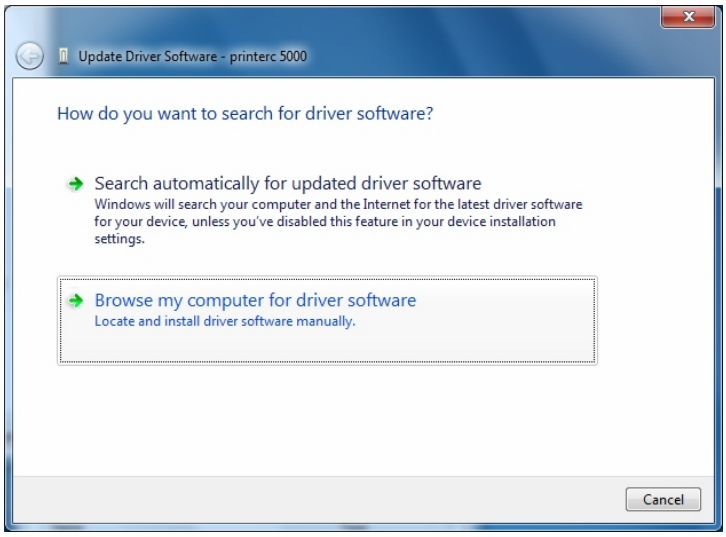
Select the Hardware tab and choose Properties.



Select the option Change Settings (administrator rights are required here)

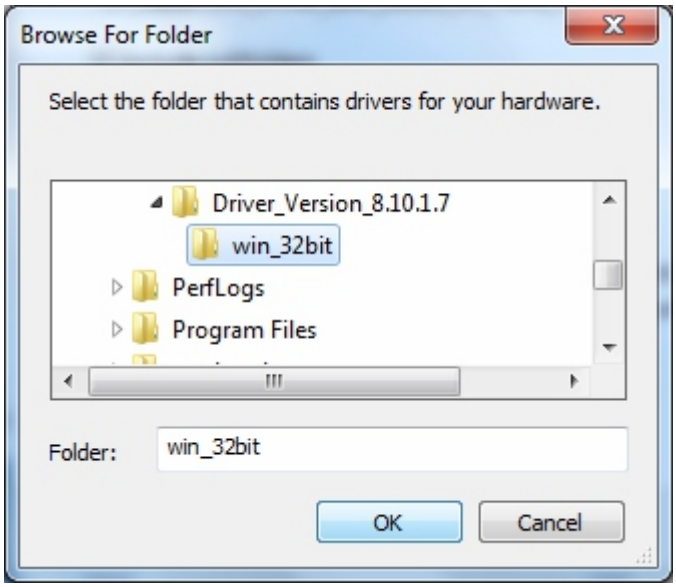


Select Update Driver



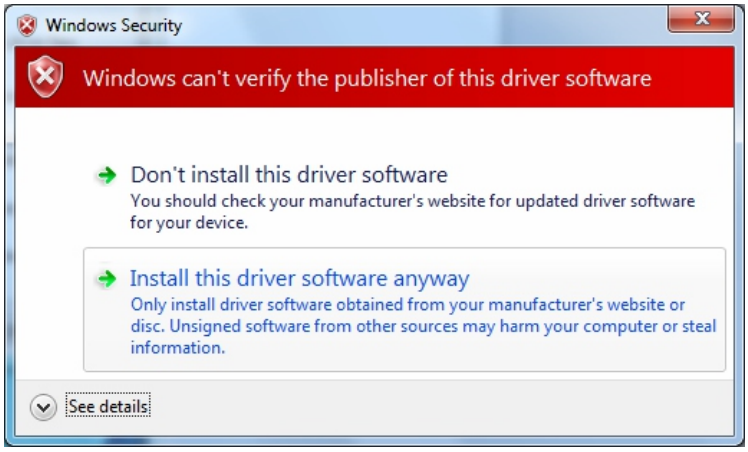
Select Browse my computer....

Installing the Printer Driver (Windows Vista & 7) continued.

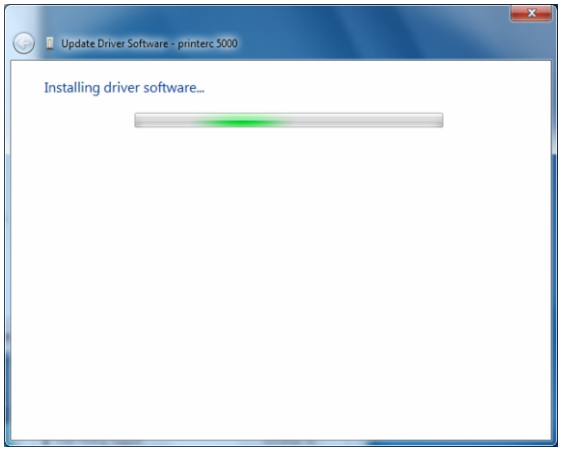


Browse for folder containing the driver file:

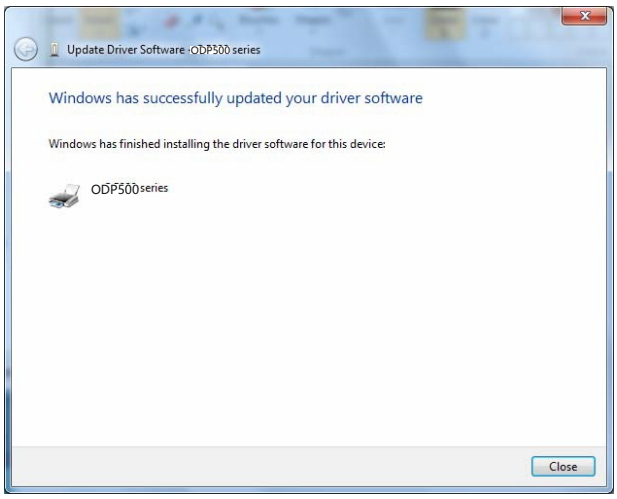
File path on DVD:
32bit: Autoplay\Driver\ODP500_driver_7032.1002.200.101.W7
64bit: Autoplay\Driver\ODP500_64bit_drv_7064.1002.200.102\ODP500_64bit_drv_7064.1002.200.102



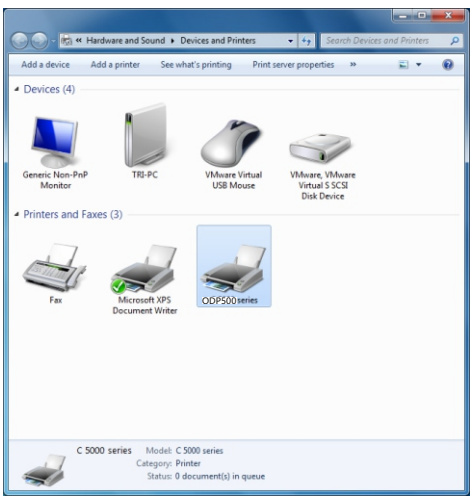
The driver is not certified, select Install this driver software anyway.



Wait for the driver to install.



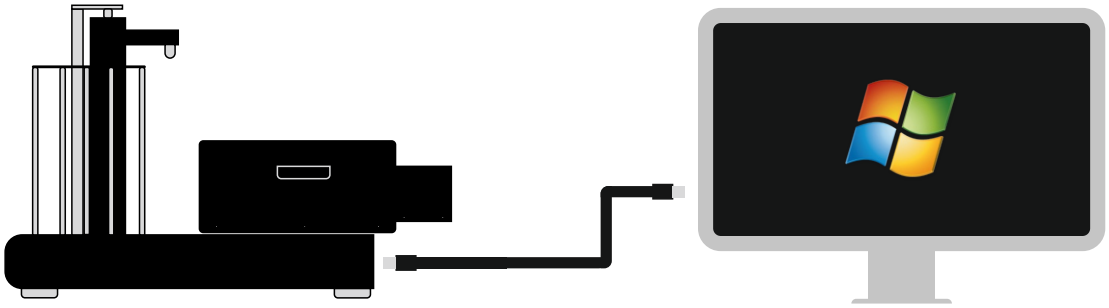
A confirmation message will appear when the driver is properly installed.



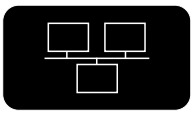
The printer will now appear in the Devices & Printers window as ODP500 Series. Make sure it is set as the default printer.

Printer and Autoloader Alignment.

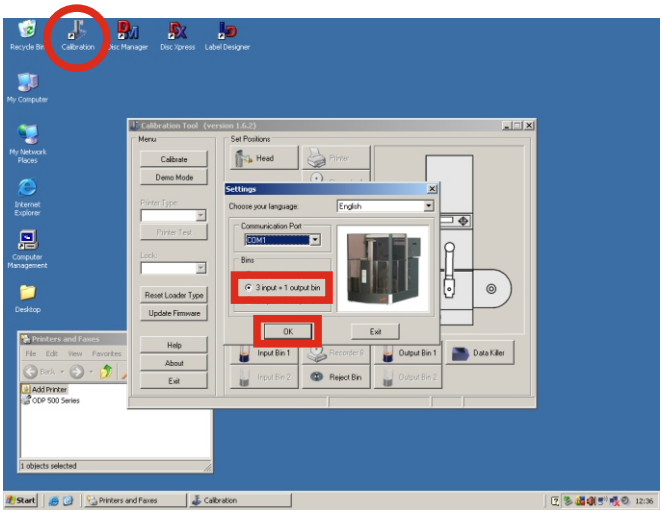
Check the Artmaster 600 is powered on and connected to a PC by USB cable.



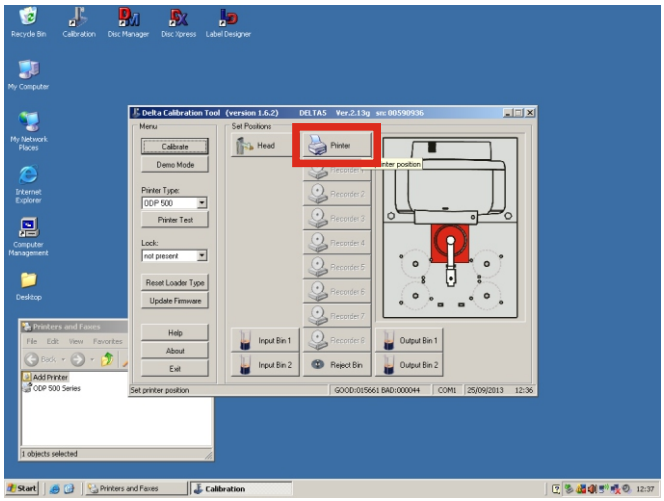
Press the Tray button on the printer keypad to eject the disc tray, manually place a disc on the tray then press the Tray button once more to load the disc tray to the rear of the printer.



Tray button

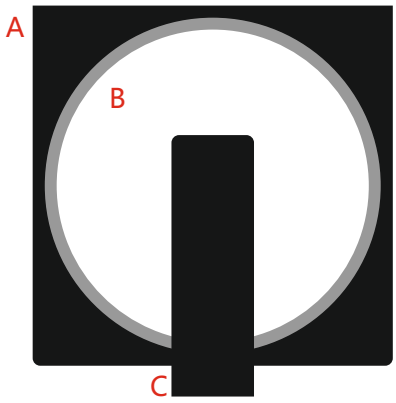


Open the Calibration Tool. Make sure the correct Autoloader type is automatically recognised: 3 input + 1 output. Select OK to connect to the Autoloader.



Select Printer. The Printer disc tray will extend and the Autoloader pick arm will lower towards the disc tray.

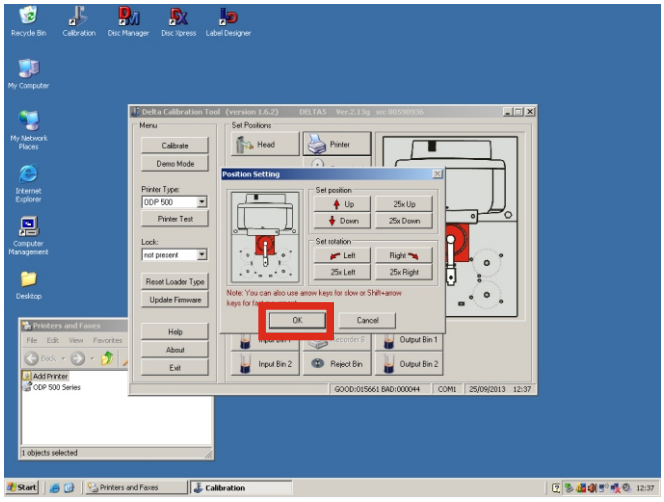
The ideal setup is shown below, so the position of the printer allows a disc (B) to be loaded/unloaded by the pick arm (C) centrally from the disc tray (A).



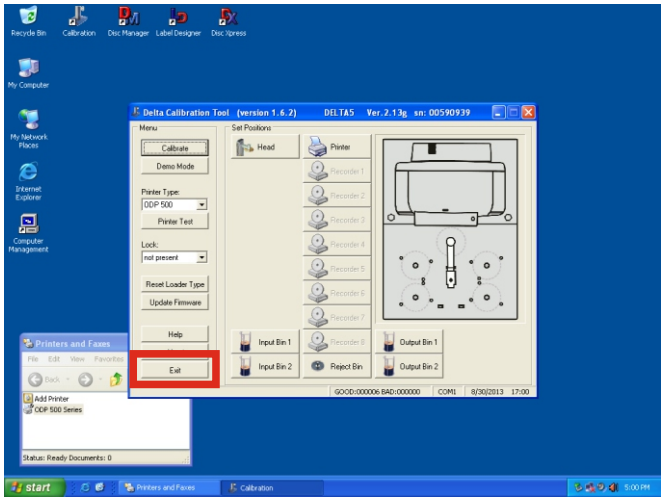
Overhead view of pick arm and extended disc tray –-ideal setup.

To achieve this, move the printer on its base to the desired position. Then tighten the base plate screws using the supplied spanner to keep this setup.

Printer and Autoloader Alignment continued.



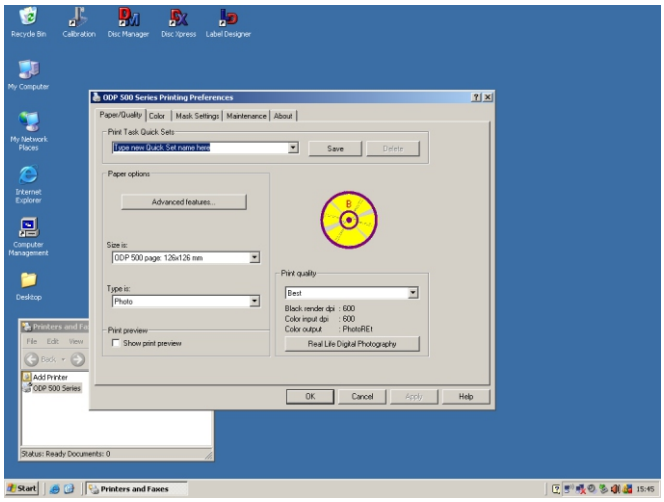
Select OK to return the pick arm to its home position. The disc tray will retract into the printer. The disc can be retrieved by using the Tray button on the printer to eject the tray. Press the Tray button once more to retract the tray once the disc has been retrieved.



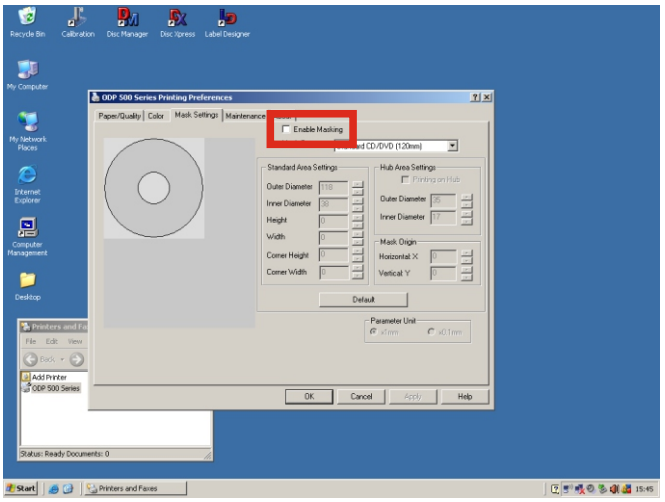
Select Exit to quit the Calibration Tool.

Setting the Default Printing Preferences.

Open the Printing Preferences section of the Printer driver (accessible in the Printers & Faxes section of the Windows Control Panel) by right-clicking on ODP500 Series printer and selecting Printing Preferences. The layout of available options, below, shows the Windows XP driver layout. The driver for Windows Vista and Windows 7 contain the same options but have a slightly different layout.



In the Paper/Quality tab set the Size, Type and Print quality. **Size must be ODP500 page: 126x126mm**.
Recommended Type = Photo.
Recommended Print quality = Best.

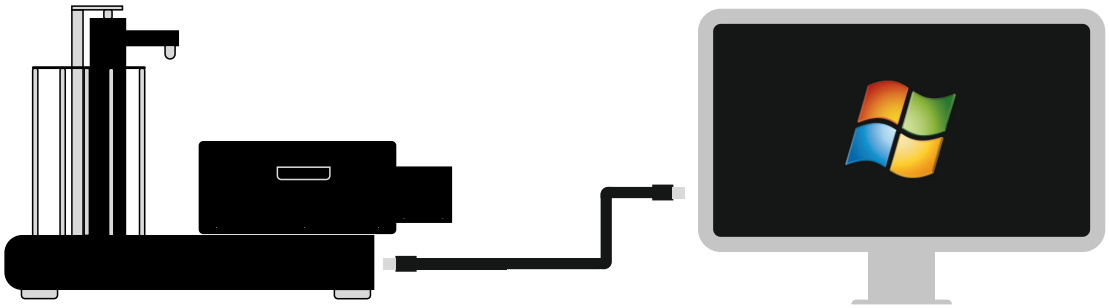


Under the Mask Settings tab, Enable Masking **must be unchecked**. Select Apply to save changes.

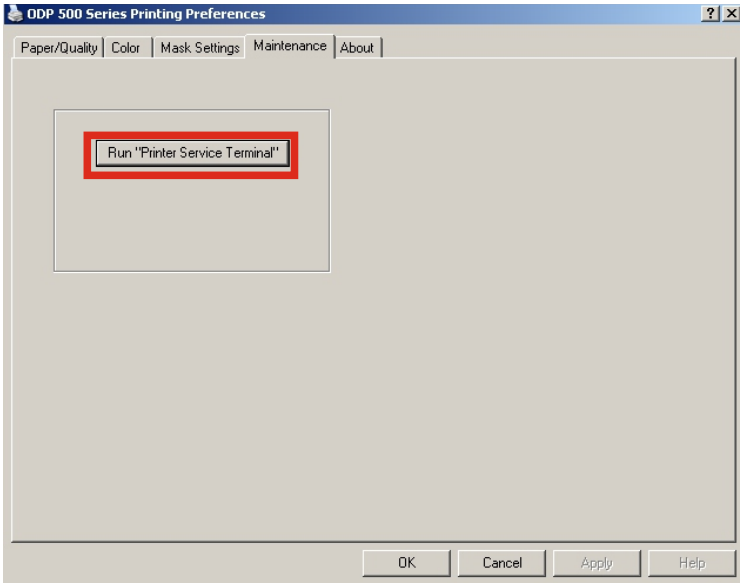
Please Note:
All settings (except paper size) under the Paper/Quality and Color tabs can be set at the discretion of the user but each setting will affect print speed, quality, output colour and ink density. It is possible to save different setup parameters under the Paper/Quality tab.

Printer Service Terminal.

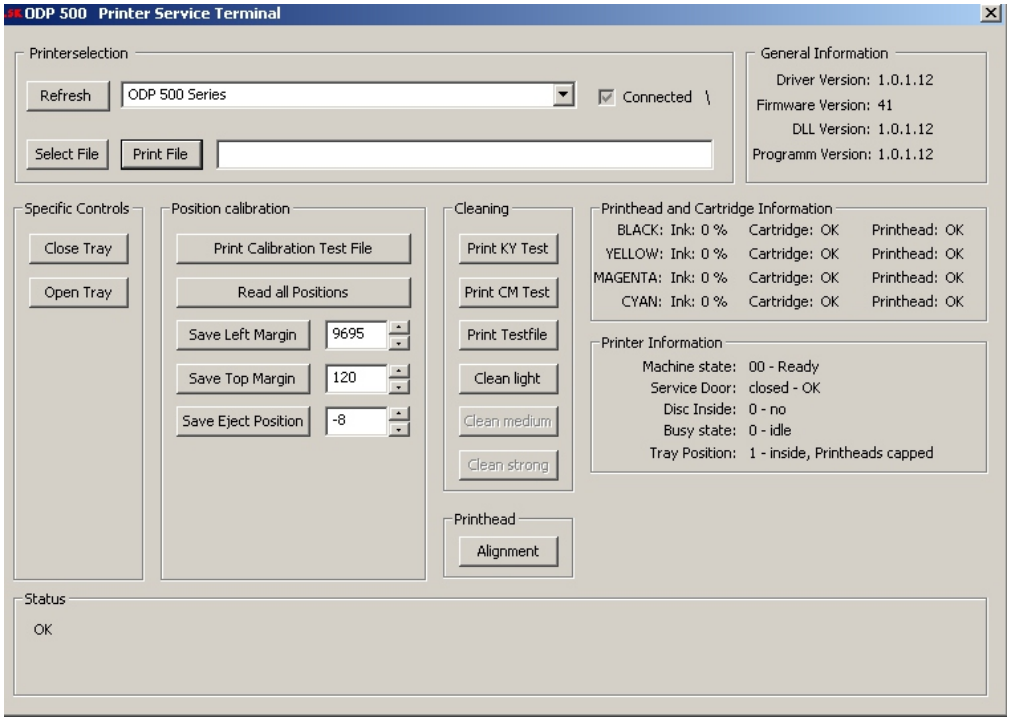
Check the Artmaster 600 is powered on and connected to a PC by USB cable.



Open the Printing Preferences section of the Printer driver (accessible in the Printers & Faxes section of the Windows Control Panel) by right-clicking on ODP500 Series printer and selecting Printing Preferences.



Select the Maintenance tab then select Run Printer Service Terminal. The terminal will connect automatically to the printer and may take several minutes to read all printer values and check the printer status.



Printer Service Terminal

Print Offset

To check the current print offset you can print the calibration test file.

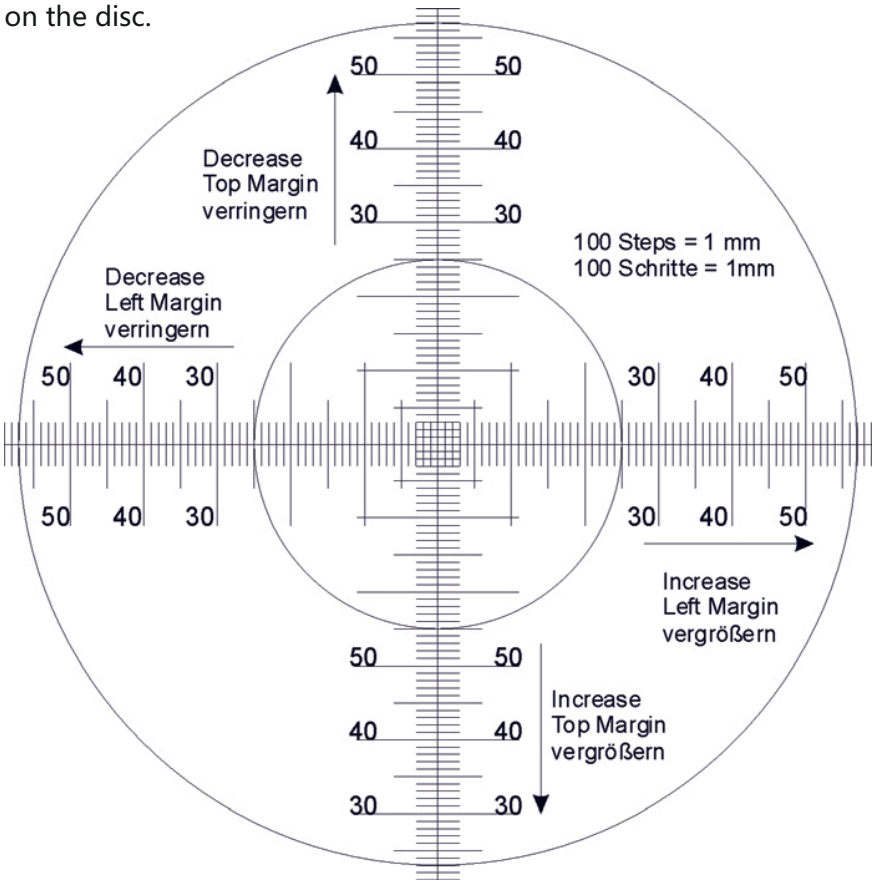
Select Open Tray to fully extend the disc tray.

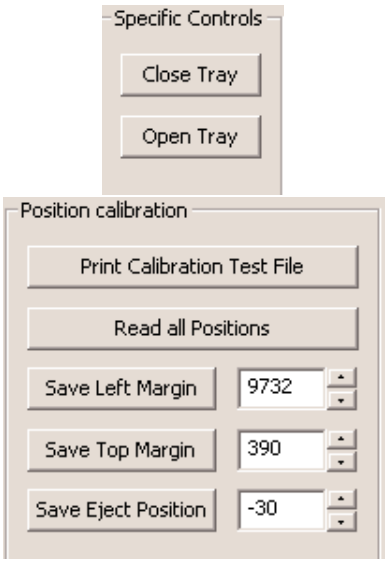
Place a disc on the tray by hand, then select Close Tray.

Select Print Calibration Test File.

The disc tray will not eject the disc after printing this file.
When the printer status shows as Idle, select Open Tray to retrieve the printed disc.

The pattern below, containing calibration markers, will be printed on the disc.





Count the graduation marks to the edge of the disc's printable area on the left, right, top and bottom edges of the pattern.

For top margin (Y axis) alignment the number of graduation marks to the top and bottom edges from the centre of the disc should be equal. Each graduation mark on the printed pattern = 1mm. To adjust the alignment, alter the value in the box next to the button labelled Save Top Margin. 1mm on the disc = 100 steps of the value in this box. Increasing the value shifts the offset down the disc and decreasing the value shifts the offset up the disc.

For example:
The value in the example above shows the top margin as 390. To move the printed image 1mm up the the disc, the value should be changed to 290. Selecting Save Top Margin will save this change.

For left margin (X axis) alignment the number of graduation marks to the left and right edges from the centre of the disc should be equal. Each graduation mark on the printed pattern = 1mm. To adjust the alignment, alter the value in the box next to the button labelled Save Left Margin. 1mm on the disc = 100 steps of the value in this box. Increasing the value shifts the offset right on the disc and decreasing the value shifts the offset left on the disc.

For example:
The value in the example above shows the left margin as 9732. To move the printed image 1mm left on the disc, the value should be changed to 9632. Selecting Save Left Margin will save this change.

Remember to select Save .... Margin after making any changes or those changes will not apply.

The offset can be adjusted by any increment down to 0.01mm. This is the minimum adjustment since 1 step = 0.01mm. Offset adjustments can be carried out at any time during the life of the printer and any changes made will apply to all prints, including previously created jobs.

Aligning the Print Heads

This should be carried out immediately after a new print head is installed.

Once this process is started it is required to complete it, or the true values may not be saved.

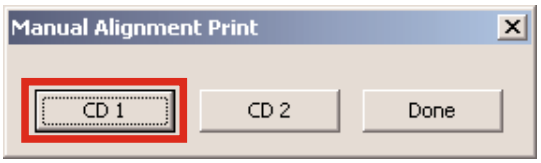
Have two un-printed discs ready.

Manually load the first disc into the disc tray. You can use the Open Tray and Close Tray buttons for this.

Select Printhead Alignment to begin the process.

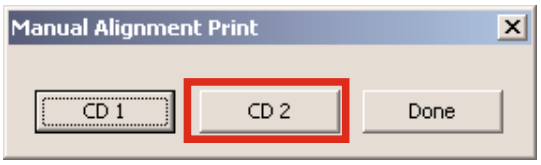
Select the 20ips option.

Select CD1 to print the first alignment image.



Retrieve CD1 from the printer and place the second disc on the disc tray (if the tray does not eject automatically use the printer keypad to do so).

Select CD2 to print the second alignment image.

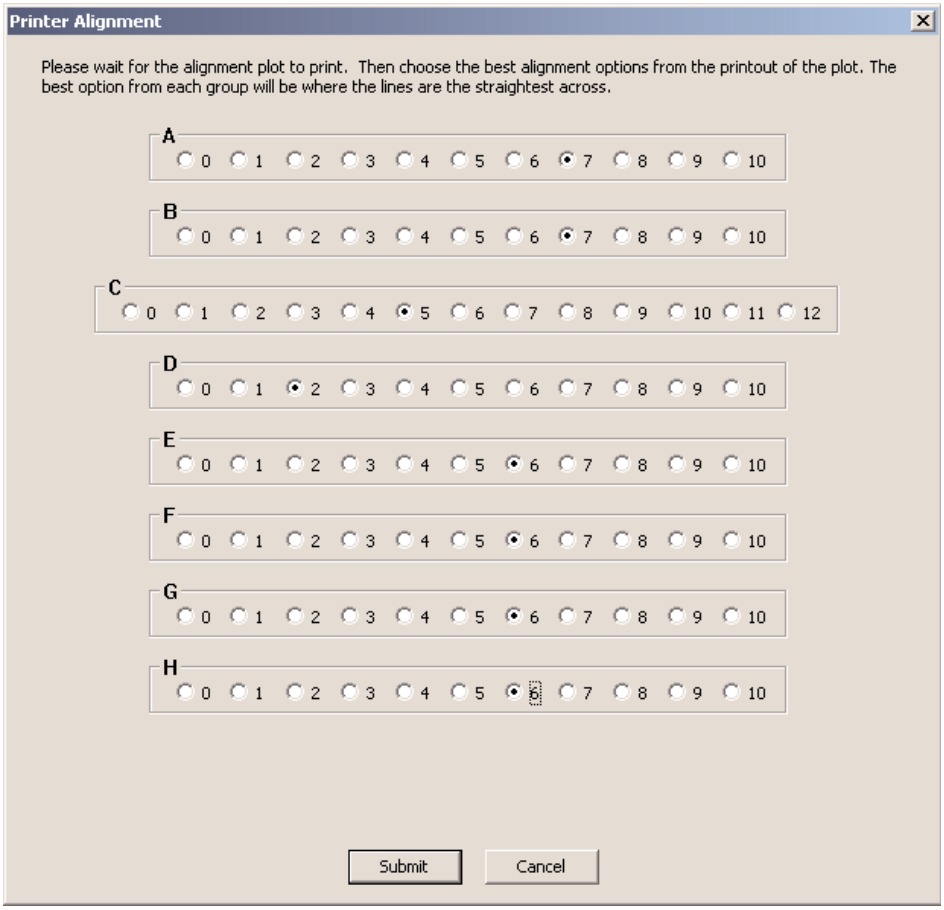


Retrieve CD2 from the printer (if the tray does not eject automatically use the printer keypad to do so).

CD1 Alignment A - D patterns

CD2 Alignment E - H patterns

Aligning the Print Heads continued.



Observe the two printed discs.

Each row (A - H) has 11 patterns printed (0 - 10).

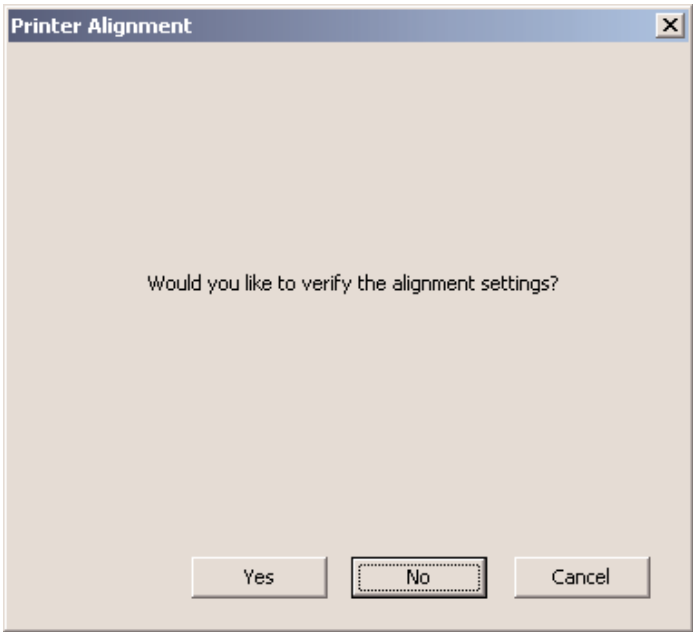
Decide which of the 11 numbered patterns has the straightest line pattern for each row. Then select the corresponding number for each row in the dialogue box shown above.

Once a selection has been made for each row select Submit.

If you wish to verify the changes made select Yes in the next dialogue box, shown right. The process will then start from the beginning. If you choose to verify follow the complete process back to this point without quitting part-way through, or the true values may not save.

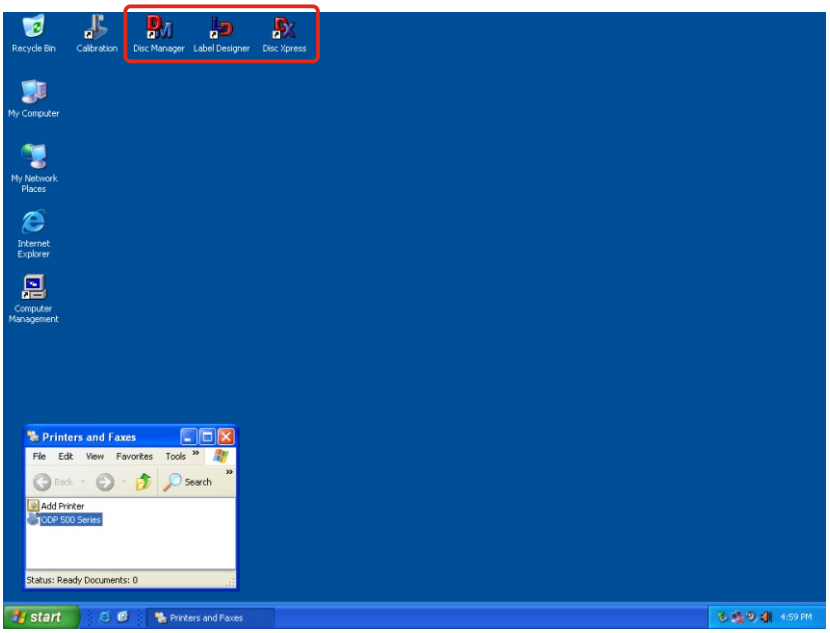
If you do not wish to verify the changes made select No to complete the Print Head Alignment process.

Selecting Cancel in this dialogue box is not recommended because the true values may not be saved. The process will need to be re-started and completed correctly.



Registering Your Copy of Disc Manager.

From your desktop you will have three new icons after successfully completing **Section 1.5 Installing the Software** of this user guide.



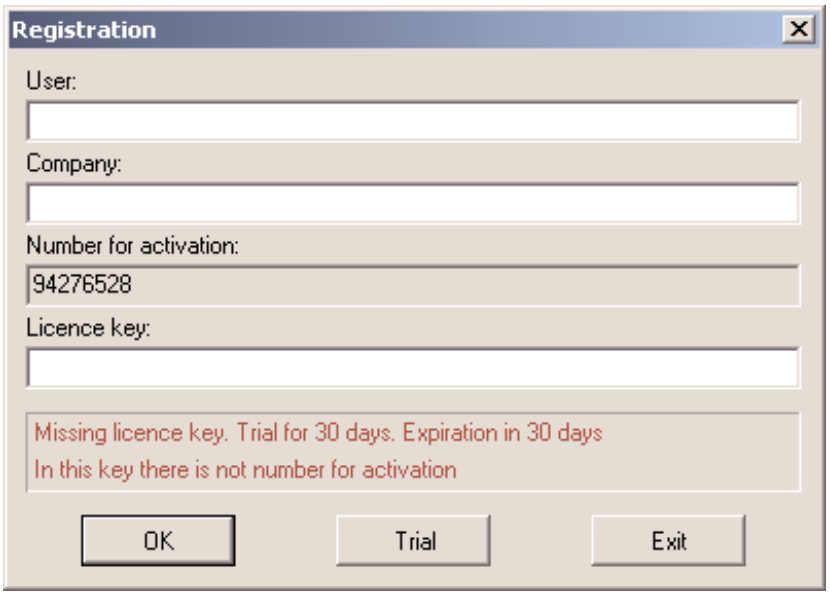
Disc Manager
Production management software used to run all print jobs.

Label Designer
Print image creation software which includes disc masks.

Disc Express
Burn software not used with the Artmaster 600 printer.

Open Disc Manager (DM).

When opening DM for the first time you will see the Registration window.



DM requires a Licence Key unique to your Artmaster 600 and PC.

Fill in the fields of this window with your name [User], company name [Company] and licence* [Licence key].

Select OK to complete the registration.

DM will open and connect to your Artmaster 600.

***Q. How do I receive my Licence Key for Disc Manager?**

A: Send the Activation Number (listed in the Registration window) and the serial number of your Autoloader (labelled on the rear or side of your Autoloader) to the following e-mail address:

support@copytrax.com

You will then receive your reply, complete with your unique Licence Key by e-mail. Please note that replies may not be instant.

Q. Can I use Disc Manager while I wait for my unique Licence Key?

A: Yes, select Trial at the bottom of the Registration window. You will have full use of Disc Manager for 30 days without a Licence Key.

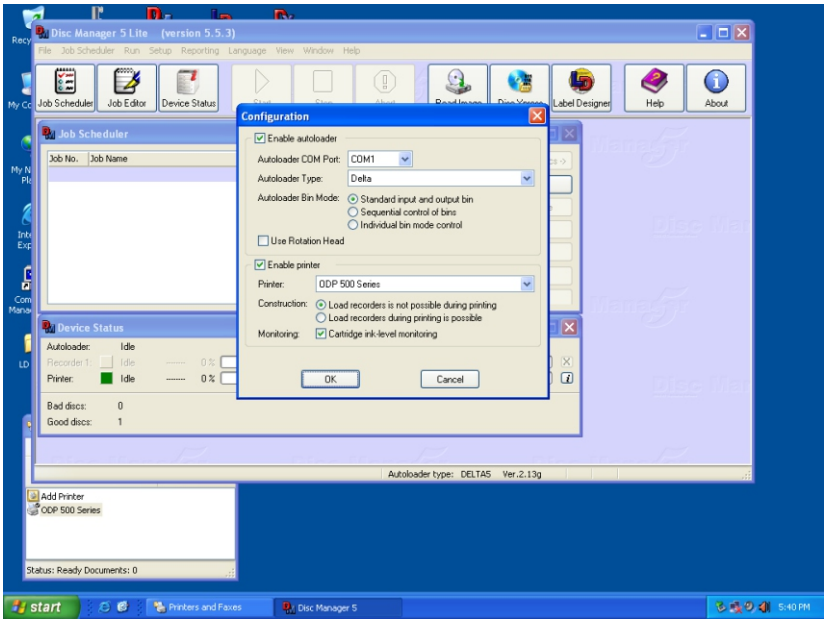
Q. Do I need a separate Licence Key for Disc Manager and Label Designer?

A: No, one key covers all elements of Disc Manager.

Setting up Disc Manager.

Open Disc Manager (DM). Your Artmaster 600 should be on and connected to your PC by USB cable.

Select Setup > Hardware Setup from the toolbar at the top of the DM window.



In some cases the configuration will auto-detect the Artmaster 600 and complete the necessary fields automatically.

If this does not happen, set the configuration as follows:

Tick the checkbox Enable Autoloader.

Set the Autoloader COM port to match that of your Artmaster 600.

Set the Autoloader type as Delta.

Select 'Standard input and output bin'.

Tick the checkbox Enable Printer.

Set the printer as ODP500 Series.

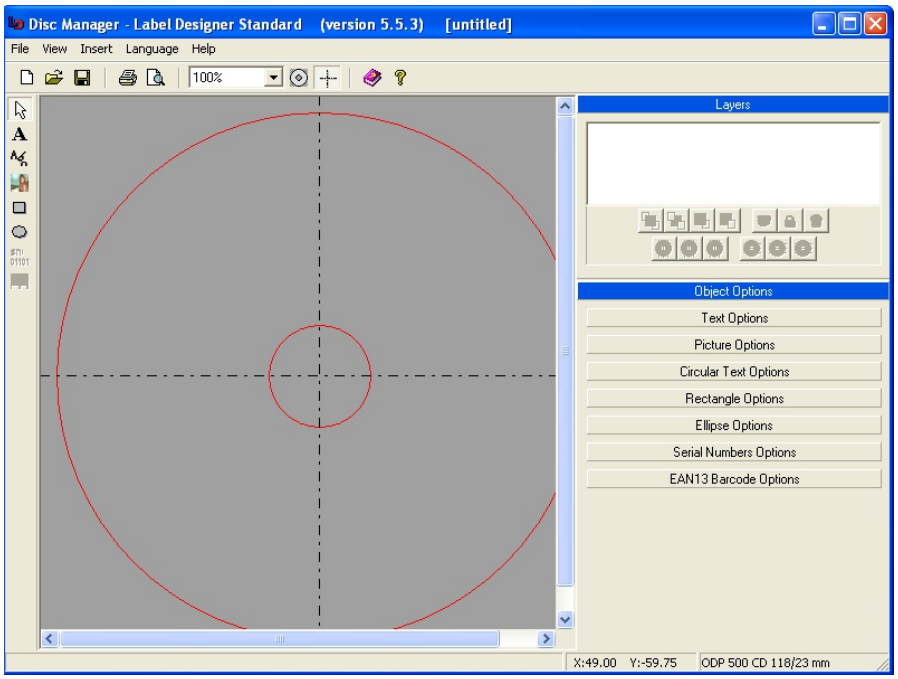
Select 'Load recorders is not possible during printing'.

Tick the checkbox for Monitoring as desired.

Select OK to complete the configuration. DM will initialise the Artmaster 600 and calibrate the autoloader.

Setting up Label Designer.

Open Label Designer (LD). From within Disc Manager, or from the LD desktop shortcut.



Setting up Label Designer continued.

Select File > Label Setup from the toolbar at the top of the LD window.

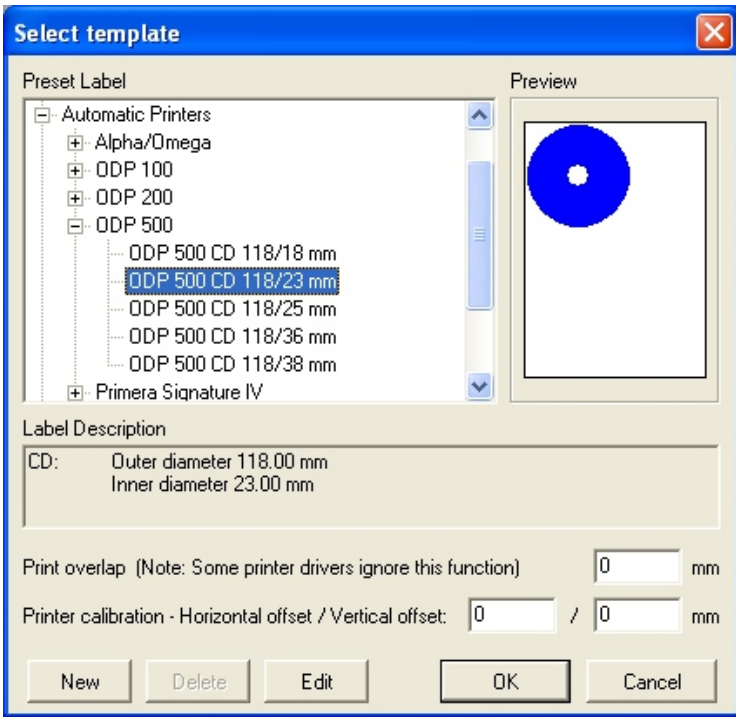
Select ODP500 from the list of Automatic Printers.

Expand the ODP500 list and select ODP500 118/23mm. This is the most commonly available printable area for CDs ad DVDs.

Select OK.

All new print images created in LD will now use this printable area sized mask.

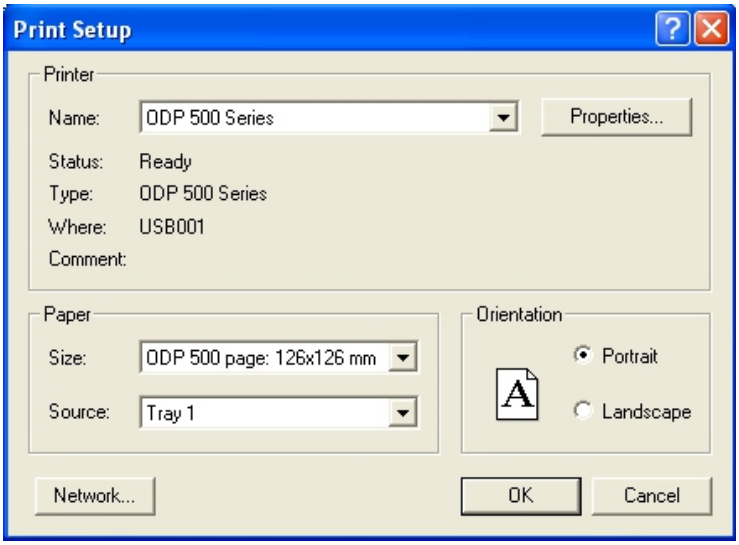
To fine tune the printable area for the disc mask select Edit to input and keep your desired changes.



Select File > Printer Setup from the toolbar at the top of the LD window.

In the Name drop-down list, select ODP500 Series.

All print images will now be created for this printer for use with your Artmaster 600.

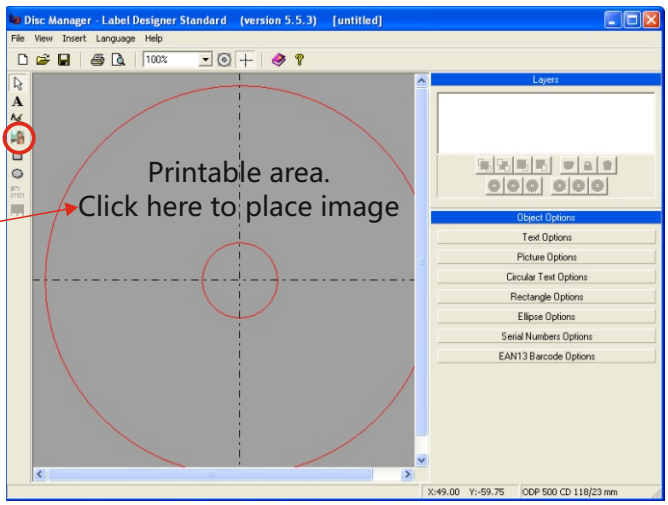


Creating a Print Image.

Open Label Designer (LD). From within Disc Manager, or from the LD desktop shortcut.

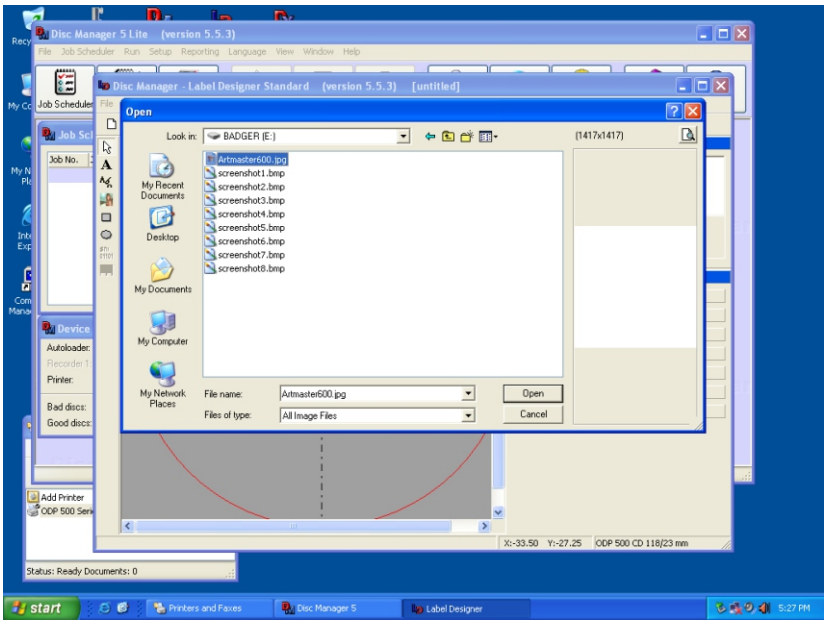
Select the Import Image icon from the left hand side toolbar.

Left-click anywhere within the printable area mask in the centre of the main LD window.



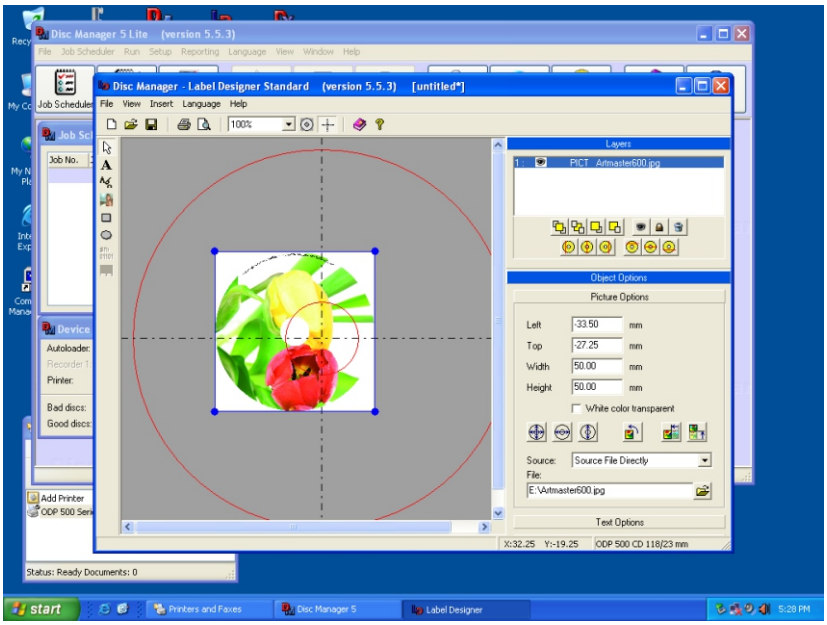
Creating a Print Image continued.

Browse for, and select your desired image, then select Open.



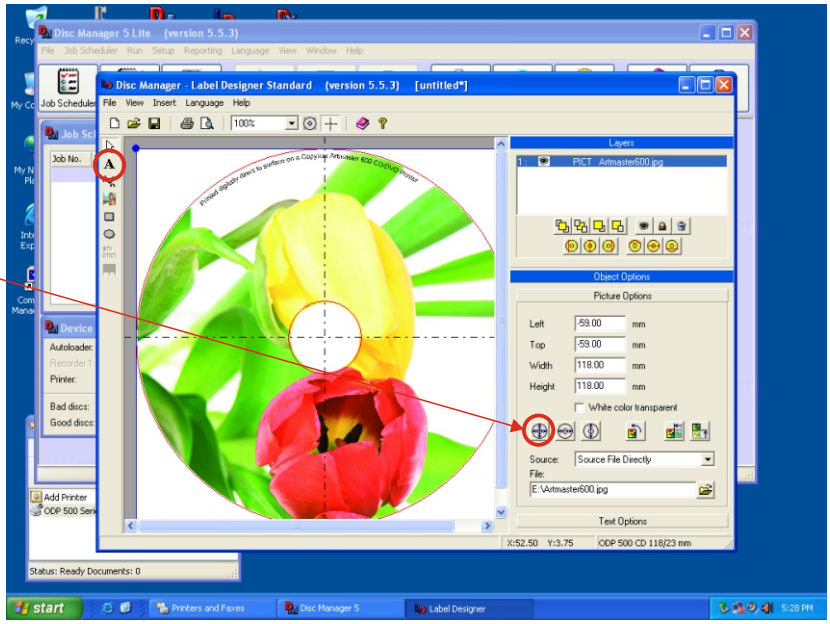
You may import a finished graphic previously created, or a picture. Text can be added after this step.

Your image will appear within the mask. It may not fill the mask immediately.

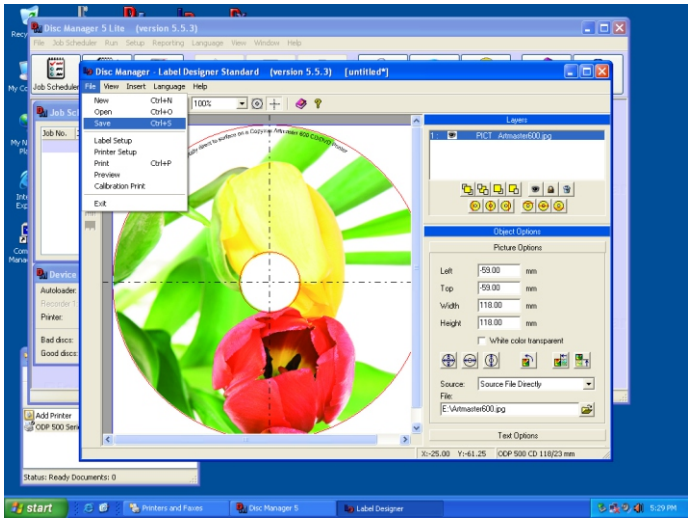


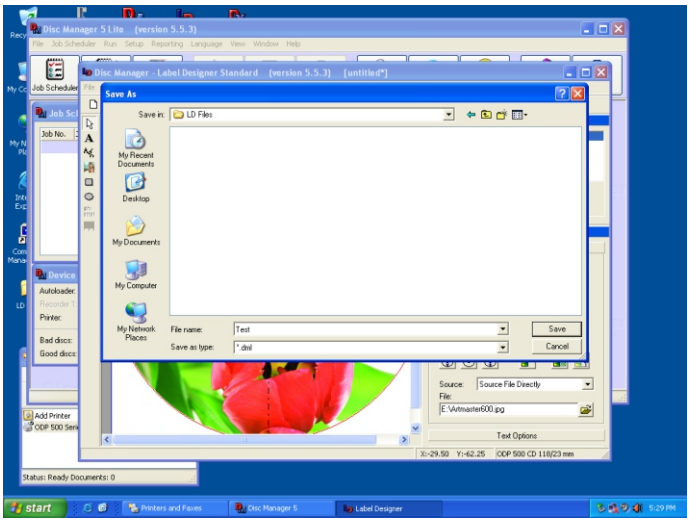
To enlarge the image to fit the mask, use the stretch tool.

Add text to your image if you need to.



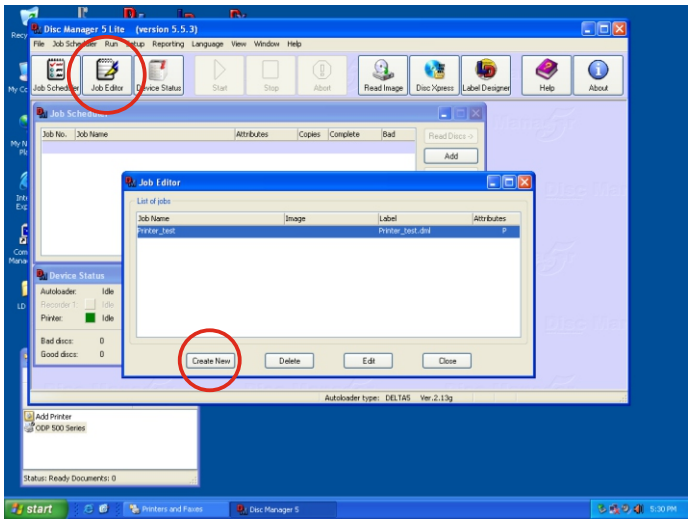
Creating a Print Image continued.



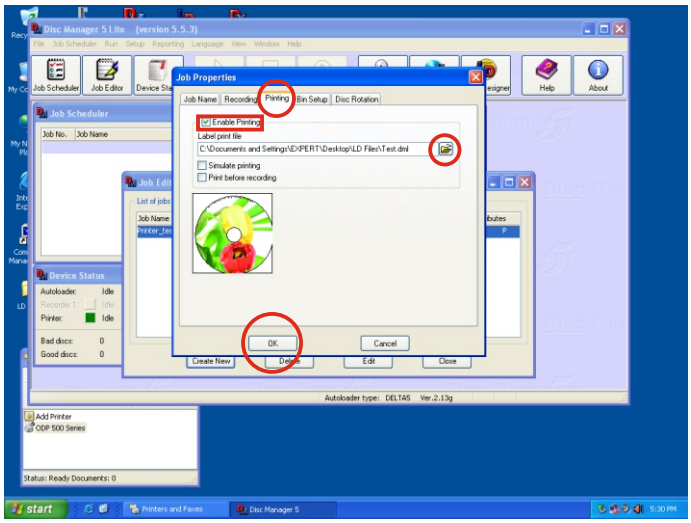


Save your image in your desired location as a .dml file ready for printing.

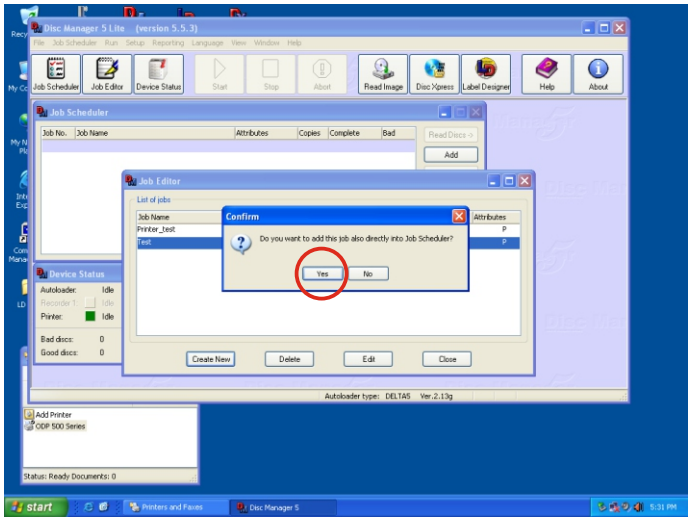
How to Print Your Image.



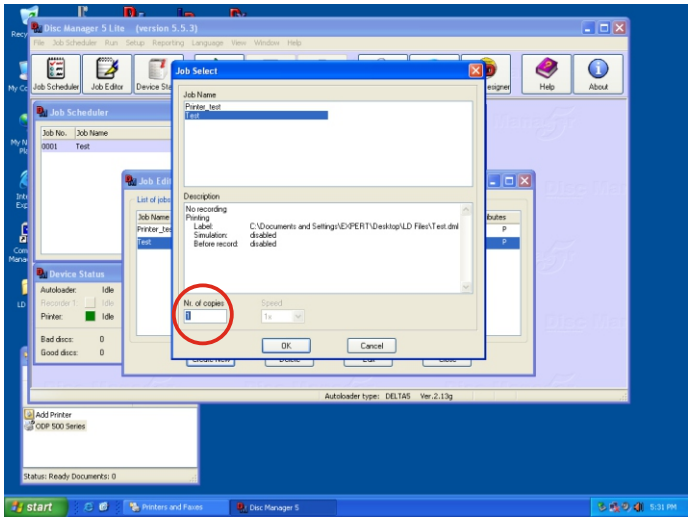
In Disc Manager select Job Editor then select Create New.



Select the Printing tab, check the box Enable Printing, browse for your saved .dml file and then select OK.

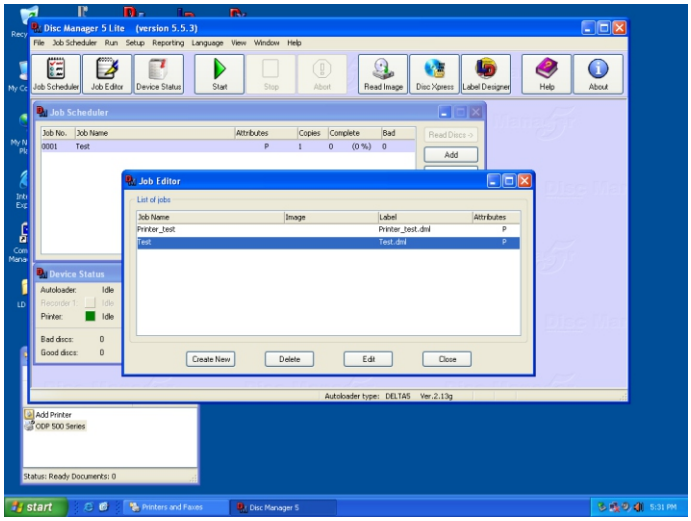


If you wish to add this print to the current print queue (Job Scheduler) select Yes.

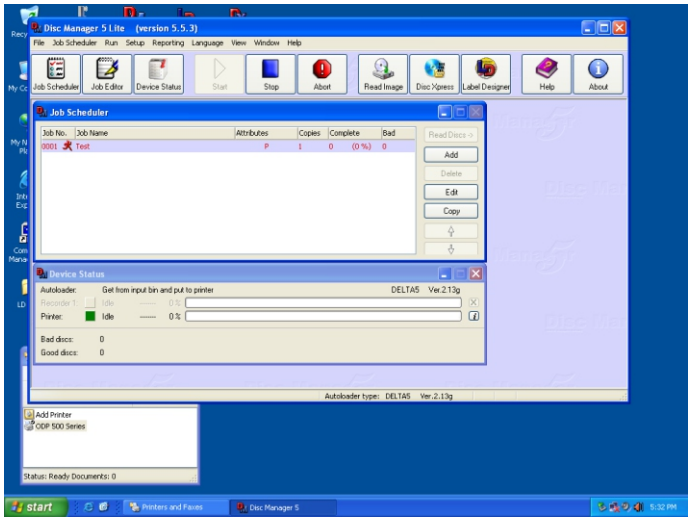


Set the number of copies you wish to print then select OK.

How to Print Your Image continued.



If you wish to add another image to the print queue return to the Create New step, otherwise if you are ready to print select Close to exit the the Job Editor.



Select the Start icon to begin the current print queue. The current queue is shown in the Job Scheduler window. The Artmaster 600 will now begin printing.

PREFACE

This manual details how to set up and begin using the software for your CD/DVD printer. It also provides information on configuration your software and basic operations. If you are a new user of Disc Manager software read the User´s Manual carefully and for step-by-step instructions on setting up your software.

Disc Manager software contains:

Disc Manager - software for automatic duplication CD and DVD
Disc Xpress - software for create data CD and DVD (*not used with Artmaster 600*)
Label Designer - software for create CD and DVD Labels
Ahead Nero - part Nero API - for recording control (*not used with Artmaster 600*)

A license key is required to run Disc Manager software. Starting without a license key enables you to use the Disc Manager software for 30 days. Contact Copytrax for your license key.

Disc Manager includes functions for burning CD and DVD which are not relevant to the Artmaster 600 printer.

1. Licence Agreement

This document is a legal agreement between you and Copytrax . Please read this agreement carefully before install the Disc Manager. If you do not agree to the term of this agreement, promptly return the disc pack including written materials and binders or other containers to the place of purchase for a full refund.

1.1 Copyright

The Disc Manager and Label Designer software programs (the "Software") is owned by Copytrax .

1.2 Licence

Copytrax grants you rights to use the software on a single user computer, or a single terminal or workstation of a multi-user computer or local area network. A separate licence must be obtained from Copytrax computer systems for every other terminal or workstation on a multi-user computer or local area network.

1.3 Copy Restrictions

This software and the accompanying written materials are copyright and property of Copytrax . You may make one copy of the software for back up or archival purpose. All the other copies are strictly forbidden. You may not decompile, reverse engineer, copy, transfer, or otherwise use the software except as expressly stated in this agreement.

1.4 Term

This licence is effective until terminated. You may terminate this licence at any time by destroying all copies of the software. This licence will terminate automatically, without notice from Copytrax , if you fail to comply with this agreement. Upon such termination, you shall destroy all copies of the software.

1.5 Limited Warranty

Copytrax warrants that the origin disc are free from defects in material and workmanship, assuming normal use, for a period of ninety (90) days from the date of purchase. If a defect occurs during this time, you may return your faulty disc to Copytrax , along with a dated proof of purchase, and it will be replaced free of charge.

1.6 No Liability For Consequential Damages

In no event shall Copytrax be liable for any damages, including any loss of profit, or other incidental, or consequential damages. Arising out of your use or inability to use the software or written materials, even if Copytrax had have been advised exclusion or limitation of liability for limitation may not apply to you.

1.7 Miscellaneous

This software and documents are protected by Czech and international copyright laws. If any provision of this agreement shall be unlawful, void or for any reason unenforcable, then that provision shall be deemed severed from this agreement and shall not affect the validity or enforceability of the remaining provisions of this agreement. This agreement is the complete statement of the agreement and supersedes any proposal or prior communications between us relating to the subject matter of this agreement. If you have any question regarding this agreement, you may contact us.

2. Installations

2.1 Minimum System Requirements

Please make sure that the computer on which you plan to install Disc Manager meets the minimum system requirements for the program to run:

For two recorders:	*For four recorders:*
• Microsoft Windows 2000, XP	• Microsoft Windows 2000, XP
• CPU 1,6 GHz or high	• CPU 1.8 GHz or high
• 1GB RAM or more	• 2 GB RAM or more
• FireWire (for Gamma duplicator)	• Raid 0 disc (HDD Raptor 10000 rpm)
• One COM port	• 2 FireWire controllers (for Gamma duplic.)
• Monitor (1024x768 recommended)	• One COM port
• 300 MB free disk space	• Monitor (1024x768 recommended)
	• 300 MB free disk space

2.2 Software

At present the CD Disc Manager is available for the automatic duplicators. It consists of several modules.

- ***CD Disc Manager*** - controls the automatic duplicators
- ***CD Xpress*** - CD / DVD mastering (*not used with the Artmaster 600*)
- ***Label Designer*** - Graphics software to design the CD / DVD label

2.3 Installation

This chapter describes how to install the Disc Manager software onto your computer. You can find the Disc Manager software on the supplied CD disc. To install from the Disc Manager CD, simply insert the CD disc into the drive. If setup does not begin automatically, you will need to run ***autorun.exe*** from the CD's root directory.

(To install the download version, unzip the downloaded file. Then start the ***SetupDM.exe***. You must have administrator privileges on your PC)

After run the CD you can see information for installation in the main installation window:

Content - for read short informations about installation the Disc Manager Software click by mouse on this button.

About DM - for read informations about the Disc Manager Software click by mouse on this button.

DM for Win XP / Vista - install the Disc Manager software. After click by mouse on this button starts the installation.

DM for Windows 7 - install the Disc Manager software. After click by mouse on this button starts the installation.

Web Pages - for visit web pages of Copytrax computer systems click by mouse on this button.

When you install the Disc Manager software from CD for another duplicator (e.g. Alpha, Delta, Omega,..) you can see different information window:

Main window for Alpha duplicator

Main window for Delta duplicator

Main window for Omega duplicator

2.4 Disc Manager Installation

To run install the Disc Manager software click by mouse on the *Disc Manager* button in main window or run ***SetupDM.exe*** file which you download from internet. After executing, you will find a starting dialog on the screen:

Select language - available are Czech, English and German

After select the install language click by mouse to *OK* button to continue or click to *Cancel* button to cancel this installation.

Setup program copy the Disc Manager files onto your hard disc:

If will you know more about Disc Manager software click by mouse to *View README.TXT* button. You obtain more information about:

- *What is possible in Disc Manager*
- *Program features*
- *Supported formats*
- *Minimal System Requirements*
- *History*

To continue install the Disc Manager software click by mouse to the *Next* button or click to *Cancel* button to cancel this installation.

Please read the software licence agreement before install. If you agree click by mouse to *YES* button or click to *Cancel* button to stop this installation.

This window show information which software was installed and which software can be install now.

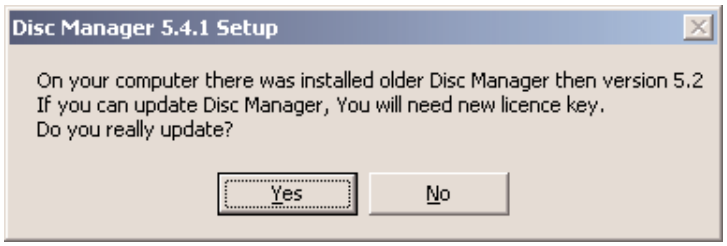
Please confirm the directory or choose where you want to install Disc Manager.

Install - select programs for installation and click by mouse to *Install*button

Update - select programs to update on latter version and click by mouse to *Update*button

After executing, you will find a starting dialog on the next window.

During the install, you will see this message:



This message will show when you make upgrade the Disc Manager to the latter version.

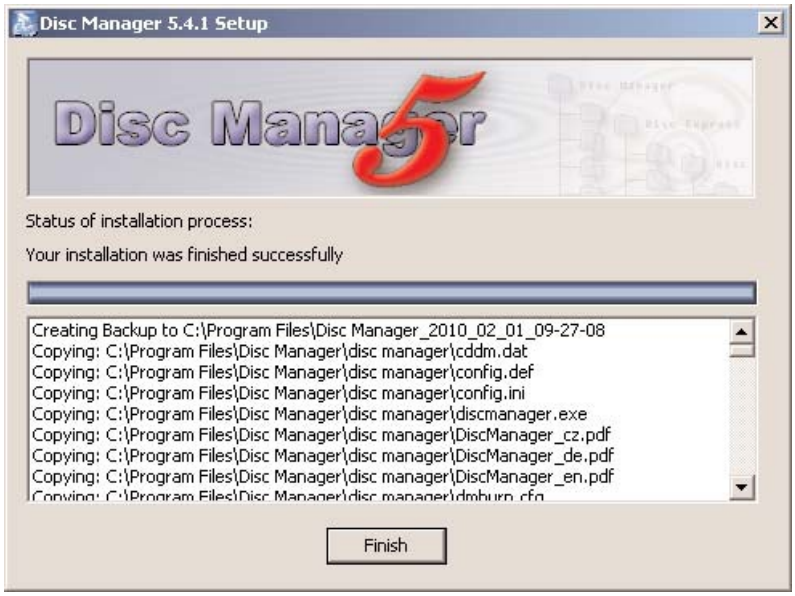
Click by mouse to *Yes* button to continue or *No*to cancel.

This message will show when you make upgrade the Disc Manager to the latter version. Allow you to create backup of existing version software.

Click by mouse to *Yes* button to continue or *No*to cancel.

This message will show when you make upgrade or install the Disc Manager. The Disc Manager require the Nero software. Please, pay attention to right version of the Nero and Disc Manager software.

Installation continues:



Setup program copy all the necessary files of the Disc Manager onto your hard disc.

When all files was copy click by mouse to the *Finish*button.

The Disc Manger is installed and ready for use. You can see three icons on the desktop:

Disc Manager icon

Disc Xpress icon

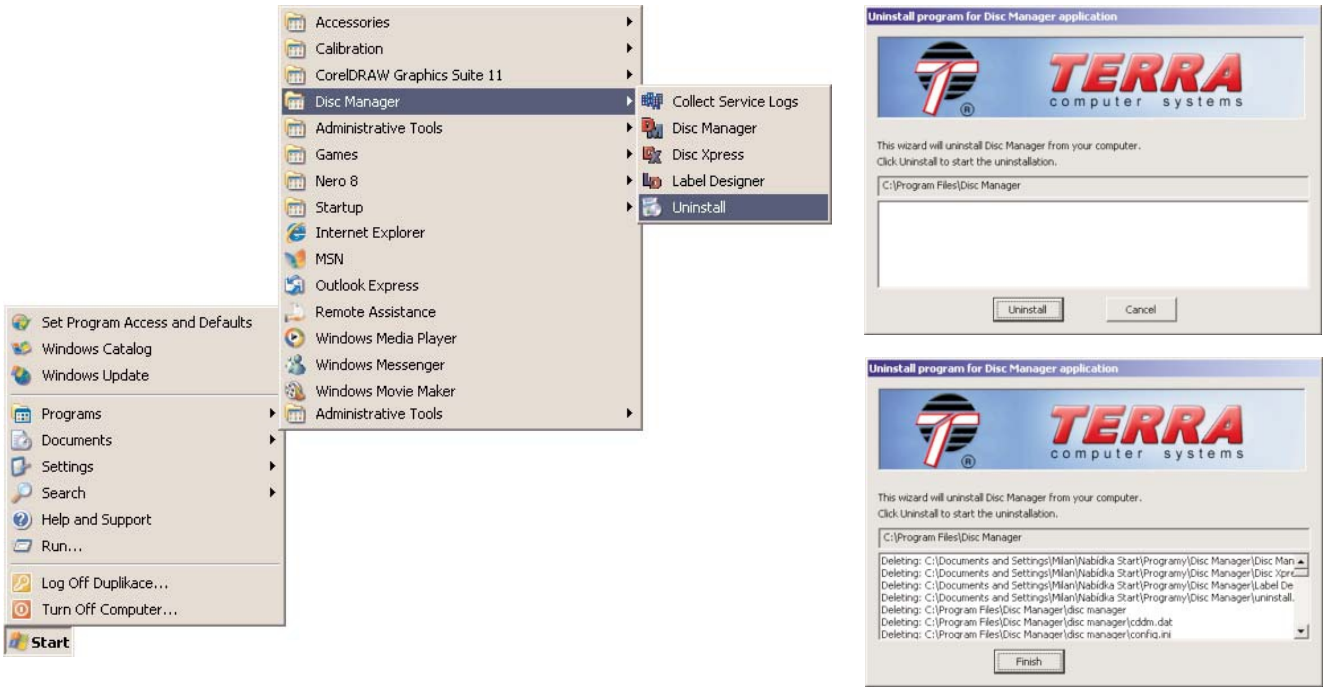
Label Designer icon

After installation has completed you will be required to restart your machine. If you do not wish to restart immediately, choose restart later. But before then start Disc Manager.

2.5 Uninstall

In order to uninstall the Disc Manager, the personal computer must be restarted first of all. This is necessary so that all files which are used by the Disc Manager are not blocked by other applications or the operating system. Blocked files cannot be removed during the uninstallation. This may cause problems in the case of a later reinstallation. All programs must be closed before the uninstallation of the Disc Manager software.

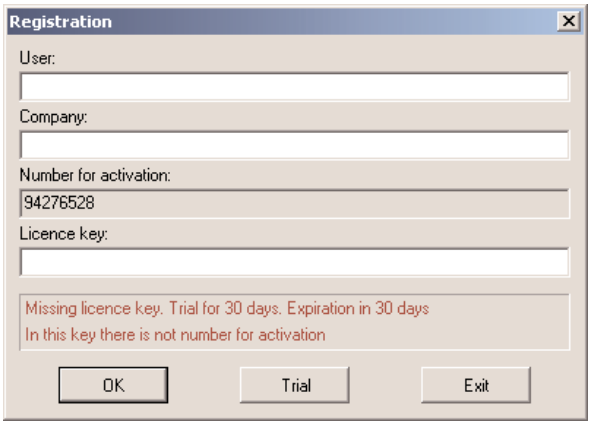
Please open the uninstall dialog - click by mouse to: *Start --> Programs --> Disc Manager --> Uninstall*



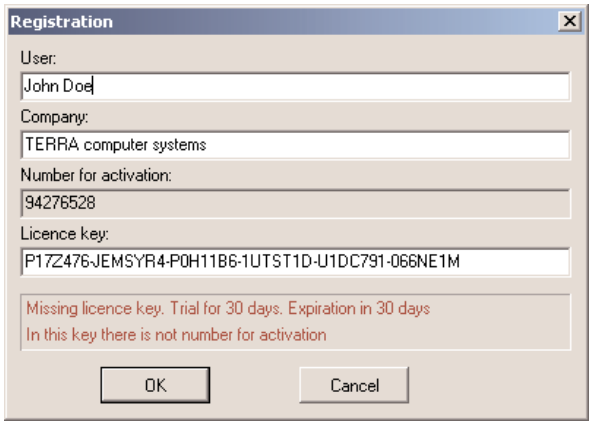
After executing, you will find an uninstall dialog on the screen - see right up picture.Click by mouse to *Uninstall* button to continue or *Cancel* button to stop the uninstallation. For finish the uninstallation the Disc Manager click by mouse to *Finish* button - see right up picture. The Disc Manager was uninstall.

2.6 Disc Manager start

You can start the Disc Manager software after installation is complete. Starts the Disc Manager by clicking Disc Manager icon twice in the desktop or on the Windows *Start* menu point to: *Start --> Programs --> Disc Manager --> Disc Manager* When you start the Disc Manager software fill in the registration windows, please. Fill in *User name*, *Company name* and *Licence key*. The registration code is on a wrap of CD. Next click by mouse to *OK* button for open the Disc Manager. When you start the Disc Manager software as a trial version you have a 30 days for trying, but you can use only four recorders and you are prompted with trial version message. You receive the licence key after sending the activation key, see chapter *7.4 Registration*.



Registration window after first start



Filled in the registration windows (example)

3. MENU

This chapter describes all menu items of the Disc Manager software, look at next page.

3.1 Menu Structure

File

Job Scheduler	- Shows Job Scheduler window for controlling the recording process on a PC
Job Editor	- Shows Job Editor window for creating, deleting and editing duplication jobs
Device Status	- Shows window with status of connected devices
Read Image	- Displays dialog for reading image of the whole CD or DVD disc
Disc Xpress	- Runs program Disc Xpress for creation of CD or DVD images
Label Designer	- Runs Label Designer. This software is for designing CD and DVD print labels
Exit	- Quits Disc Manager

Job Scheduler

Duplication Mode	- Disc Manager can duplicate discs
Read Discs Mode	- Disc Manager can only read discs
Add New Job	- Add new job into Job Scheduler
Delete Job	- Delete selected job from the Job Scheduler
Edit Job	- Changes number of copies of the selected job
Copy Job	- Does the copy of selected job
Increase Priority	- Moves job higher in Job Scheduler to increase its priority
Decrease Priority	- Moves job lower to decrease its priority
Load Scheduled Jobs	- Loads state of Job Scheduler stored on hard disc

Run

Start	- Runs duplication process
Stop	- Stops duplication process after finishing already started discs
Abort	- Stops process as soon as possible. If disc is recording it will destroy this disc
Reset Autoloader	- This is for calibration loader for its default position
Reset Bin Positions	- Loader will forget levels in each of bins and set these levels to default values

Setup

Hardware Settings	- Settings of your autoloader, recorders and printer
Software Options	- Variable adjustments
ARC	- Advanced Recording control – tool for automatic duplication from directory
Registration	- Shows registration dialog for insertion the licence key and owners data

Reporting

Settings	- Setting for sending notification through e-mail
E-mail Notification	- Enable or disable E-mail notification
Send Service Info	- Sends service logs of Disc Manager to software support
Export Service Info	- Creates c\service.zip file with all service logs

Language

English	- All texts in Menu are English
Česky	- All texts in Menu are Czech
Deutch	- All texts in Menu are German

View

View Toolbar	- Shows / Hides Toolbar
View Status bar	- Shows / Hides Status bar
View Title Screen	- Shows / Hides Title screen when Disc Manager starts

Window

Cascade	- Cascade mode view
Tile Horizontally	- Tiling mode view
Arrange Icons	- Arrange closed window in lower section Disc Manager window
List of Window	- Shows the actual on or off window

Help

Help Topics	- Shows help
DM Home Page	- Opens the home page of the Disc Manager
About	- Shows basic info about Disc Manager

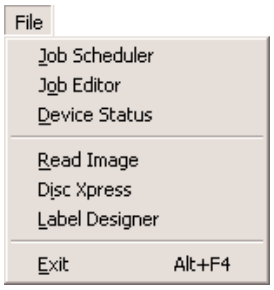
3.2 Toolbar

Job Scheduler - shows Job Scheduler window for controlling the recording process on a PC
Job Editor - shows Job Editor window for creating, deleting and editing duplication jobs
Device Status - shows windows with status of connected devices
Start - runs duplication process. It starts all scheduled jobs from Job Scheduler window
Stop - stops duplication process after finishing already started discs. Recording of already begun disc will not be interrupted
Abort - stops duplication process as soon as possible. If disc is recording it will destroy this disc.
Read Image - displays dialog for reading image of the whole CD or DVD disc
Disc Xpress - runs program Disc Xpress for creation of CD or DVD images
Label Designer - runs Label Designer. This software is for designing CD and DVD print labels.
Help - shows this help
About - shows dialog about Disc Manager application

Menu Control

For *Menu* control use the mouse or keyboard. When use the mouse press the left button to select a menu item or to manipulate text designated by the pointer. Press the right button in *Job Scheduler* and *Job Editor*to manipulate with jobs. For the keyboard - some operations require you to simultaneously use two or more keys. We identify such operations by the key top symbols separated by a plus sign (+). When you press *Alt* you can see underlined letters in Menu. For example: *Alt+B+A* means you must hold down *Alt* and at the next time press *B* and next time release *B* and press *A*. *Alt+B+A* it means *Add New Job*.

4. File

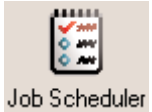


Job Scheduler - Expand *Job Scheduler* window if minimised or move to front
Job Editor - Expand *Job Editor* window if minimised or move to front
Device Status - Expand *Device status*window if minimised or move to front

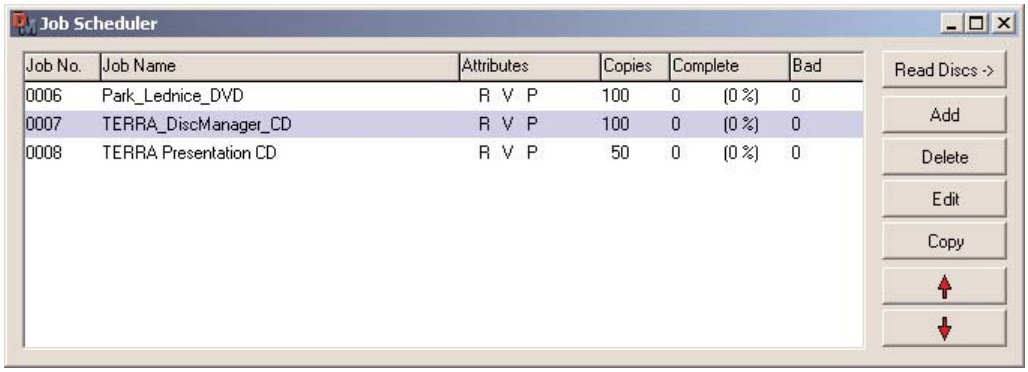
Read Image - Show *Read Image*dialog for reading images from CD and DVD
Disc Xpress - Run *Disc Xpress*for create master data disc
Label Designer - Run *Label Designer*for create labels for CD and DVD

Exit - Stop the Disc Manager and close the Disc Manager window

4.1. Job Scheduler



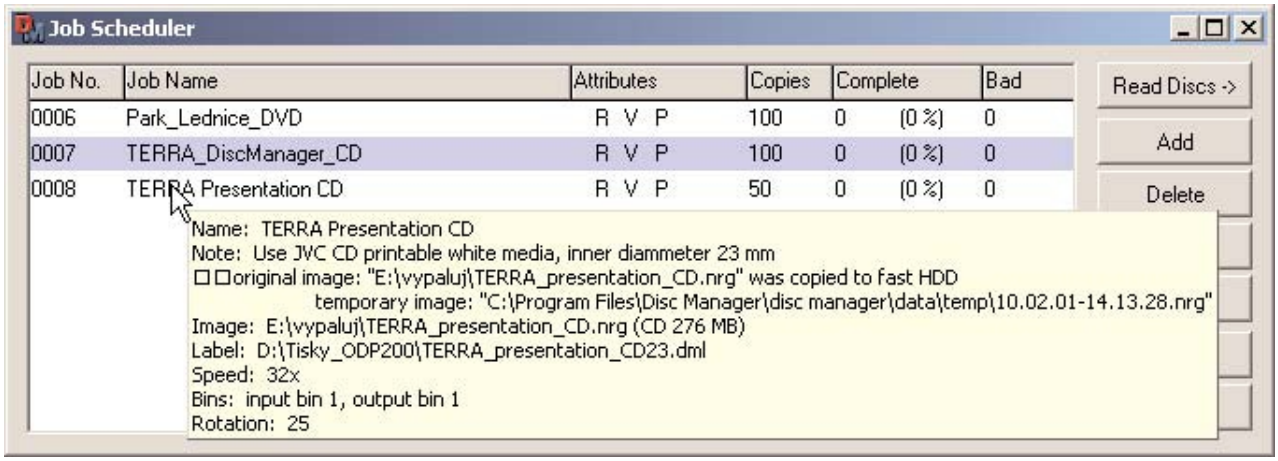
Job Scheduler is main window of the Disc Manager. It shows scheduled jobs. On the right side of the window there are a few buttons for control inserted jobs. You can *Add* predefined job, *Delete*selected job or *Edit* number of copies of the selected job. With *Copy* button you can do the copy of selected job. Two buttons at the bottom (⇧⇩) are for control order of scheduled jobs increase or decrease priority.



You can move selected job up or down and say which one will be executed first. Jobs are process from top to bottom. After click *Start* button from the toolbar or after choose menu item *Run->Start*, the Disc Manager will control automatic loader to perform producing

scheduled discs according to the given jobs until all jobs have been done or the user stops the process. A job is done when all discs have been produced. The Job Scheduler window doesn´t close only minimalize click by mouse to _ button and reopen click by mouse to □ button in upper right corner the Job Scheduler window.

Tip: *When you pointed by mouse to a Job you can see Tooltip about this job. Tooltip shows detailed informations about Job. You can see Name of job, Note about job, recording Image include path, printing Label include path, recording Speed, sorting input and output Bins and Rotation angle if rotation head is used. See picture:*



Description of Job Scheduler buttons:

Duplication Mode - Disc Manager can duplicate discs
Read Disc Mode - Batch mode, Disc Manager can only read discs
Add - Insert predefined job
Delete - Delete inserted job
Edit - Edit inserted job
Copy - Copy of selected job
Arrow Up - Moves job higher in Job Scheduler to increase its priority
Arrow down - Moves job lower to decrease its priority

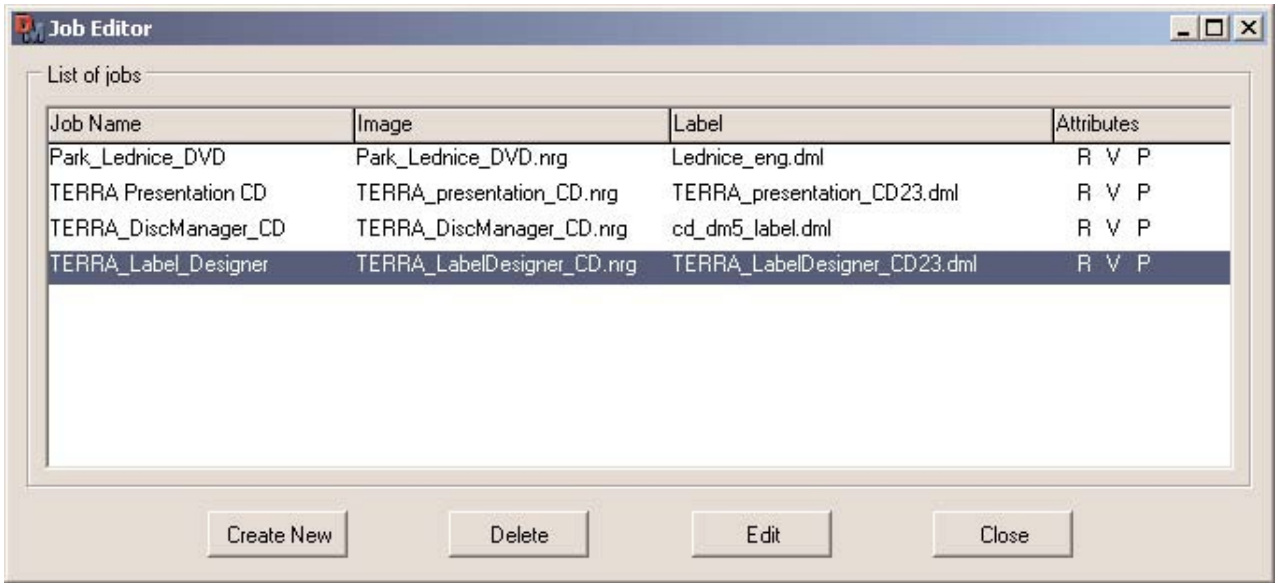
After click by mouse to *Start* button on the toolbar or after choose menu item *Run / Start* or*Alt+U+S* , the Disc Manager starts the duplication until all jobs have been done or the user stops the process. A job is done when all discs have been produced. There are several sections in the Job Scheduler window. *Job No.* section is for identification job, this number is created automatically by Disc Manager. In *Job Name* section you can see name of the inserted job. In *Attributes* section there are a few letters described below. *Copies* shows total quantity of discs for duplication. *Complete* shows quantity and percentage amount of finished discs and *Bad* shows number of bad discs.

Job No. - Identify the job
Job Name - Name of the inserted job
Attributes - There you can see following parameters:
Attribute ***E*** - **E**rase rewritable media
Attribute ***R*** - **R**ecording
Attribute ***Rs*** - **R**ecording **s**imulation
Attribute ***V*** - **V**erification
Attribute ***P*** - **P**rinting
Attribute ***Ps*** - **P**rinting **s**imulation
Attribute ***B*** - Print **B**efore recording
Attribute ***W*** - **W**ait for previous job
Copies - Quantity of discs for duplication
Complete - Quantity and percentage amount of finished discs
Bad - Number of bad discs

Tip: *During the duplication process the Disc Manager automatically saves state of Job Scheduler. So if there is some problem with Disc Manager or with computer or hardware there is possibility to load scheduled jobs after new start of Disc Manager from menu Job Scheduler/Load Scheduled Jobs.*

4.2 Job Editor

Job is an order for Disc Manager to record a number of identical discs. You can define all specifications needed to do the job in Job Editor. In Job Editor you can see list of defined jobs. At the bottom of this window there are four buttons. For add new job to the list of jobs, for delete selected job from the list and for edit job properties. Last button is for closing of Job Editor window.



__Tip:__ When you have a great numbers of Jobs you can pointed by mouse to any Job and press first letter what you find. The list of Jobs shows all jobs which began at required letter. Next use arrow down on the keyboard to find job.

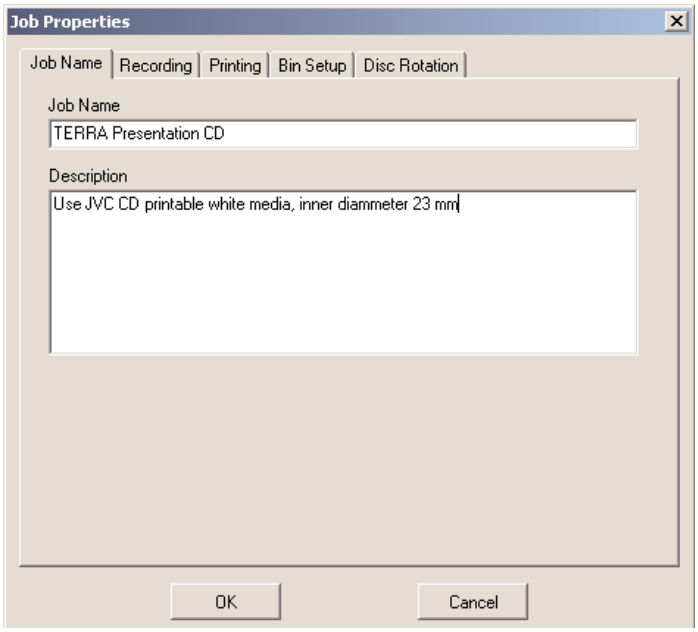
Description of Sections in the Job Editor window:

Job Name - Name of the inserted job
Image - Show image name used for duplication
Label - Show label name used for printing
Attributes: - there you can see following parameters:
Attribute ***E*** - **E**rase rewritable media
Attribute ***R*** - **R**ecording
Attribute ***Rs*** - **R**ecording **s**imulation
Attribute ***V*** - **V**erification
Attribute ***P*** - **P**rinting
Attribute ***Ps*** - **P**rinting **s**imulation
Attribute ***B*** - Print **B**efore recording
Attribute ***W*** - **W**ait for previous job

Description of Job Editor buttons:

Create - Create a new Job
Delete - Delete selected Job
Edit - Edit selected Job
Close - Close Job Editor window

4.2.1 Create New



• Job Name

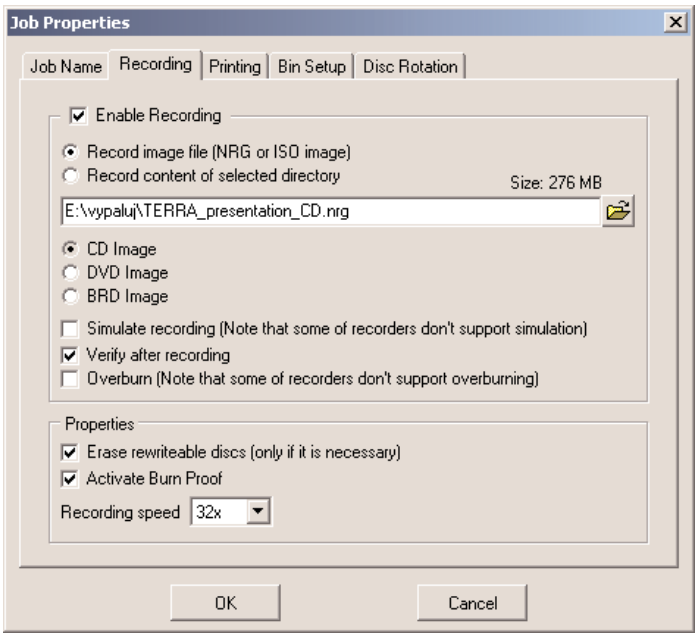
If you choose *Create New*button for create a new job then you can see following dialog window. Here you can set, if the job consists of the recording, of the printing and of the erasing.

Job Name - bookmark here you can write name of the job. Use letters and sign recommended for use in the Windows.

Description - bookmark here you can describe in detail. For example: used media - printable / brand, inner diameter for printable media (18 up to 38 mm).

• Recording

Recording bookmark is for enable or disable recording. Select type of the disc and more. Additional parameters for recording are activation of *Burn Proof* and speed of burning. If you check *Erase rewritable discs*, the discs will be erased before recording. You can also define jobs only for erasing the discs.

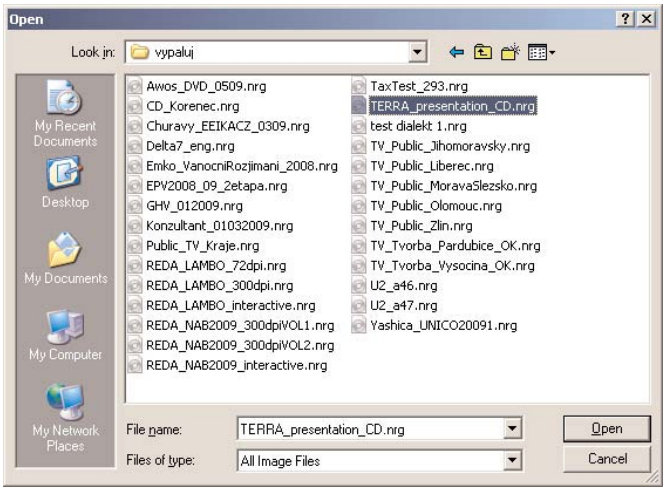


Enable Recording - enable or disable recording on the CD or DVD disc.

Record Image File - You can use image created by Nero software - this image has extension: *.nrg or ISO image created by another software - this image has extension: *.iso Click by mouse to and browse the image file.

Record content of selected directory - You can record data CD, DVD or BD from selected directory. Click by mouse to and browse the directory.

Select type of Disc - When you use the Nero image then Disc Manager recognise type of disc automatically. When you use the ISO image then you have to select type of the disc manually.



Simulate Recording - When you choose this menu item then the duplicator looks like producing CD/DVD/BD, but it does not really record. The laser itself is not activated. This mode lets you test your system configuration without really recording CD/DVD/BD discs.

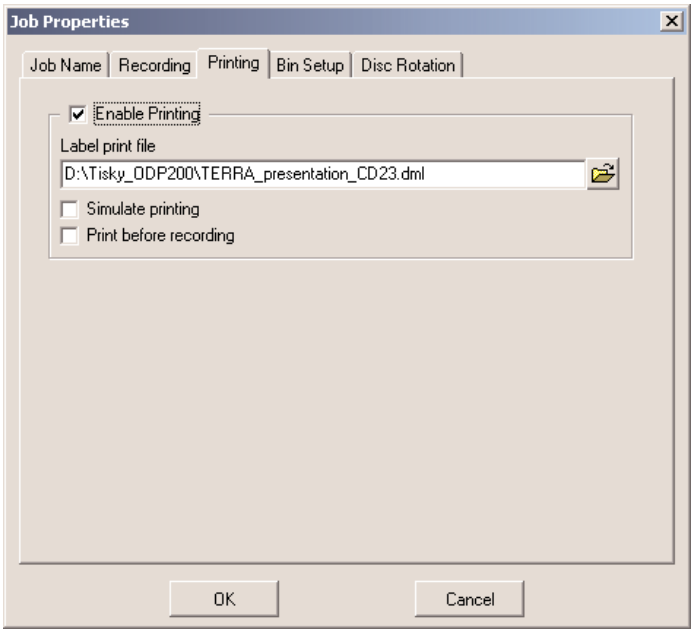
Overburn - Normally a CD-R has got a fixed maximum size of capacity. The manufacturer of the CD-R has been a bit overcautious with the data he has provided and that there really is still room at the end of the CD-R. So, you can create a CD which does not satisfy a standard CD. But there is no guarantee for this!

Erase Rewritable Disc - When is enable then rewritable disc will be deleted before recording.

Activate Burn-Proof - For enable you must know that your recorder BURN-Proof support.

Recording speed - set recording speed

• Printing



The Printing bookmark enable printing on CD/DVD surface (printable CD/DVD media). You can choose the print file in *.prn or *.dml format. PRN file is make by printer driver from any graphics software (Corel, Photoshop, Illustrator, ...) and DML file is graphic format from Label Designer which is part of Disc Manager software. If you choose printing job, you can set order of doing job.

Enable Printing - enable printing in job.

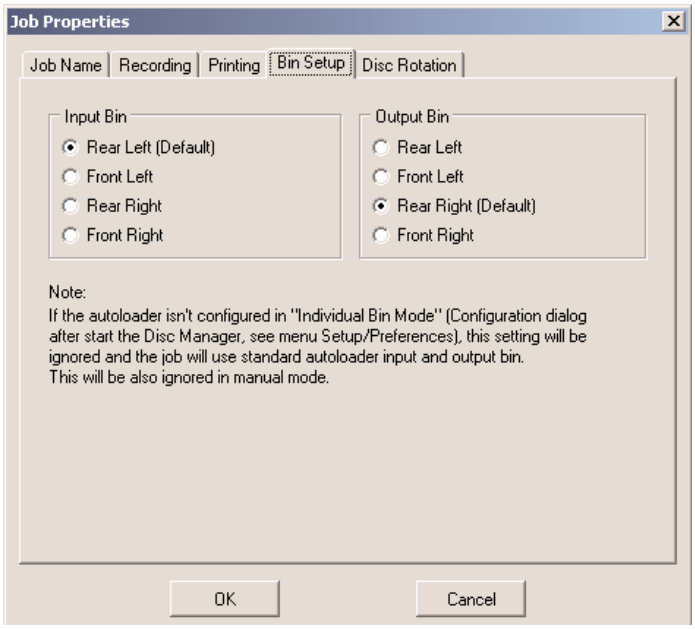
Label print file - Click by mouse to icon and browse the print file. Then click to *Open.*

Simulate printing - At simulation the printer looks like producing CD or DVD, but it does not really printing. The printable CD or DVD will be placed in the printer but not printed too. It will be taken again from the printer unprinted.

Print before recording - Choose printing order, you can set also classic order of doing job (record and then print) or print before recording method.

Warning: *if you use the Merge Field, Serialisation or Bar Code (from Label Designer) with the automatic duplicator (e.g. Alpha, Gamma, Delta, Omega), then make sure that you have setup* ***Print after Recording****.*

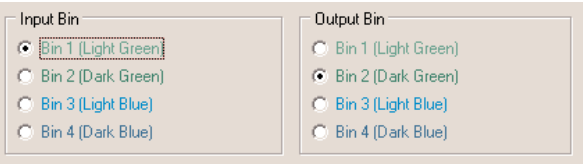
• Bin Setup



The Bin Setup bookmark allow you to set which hopper is for your job input and which is output. This option will be enabled only if you have your autoloader configured with individual control of its bin.

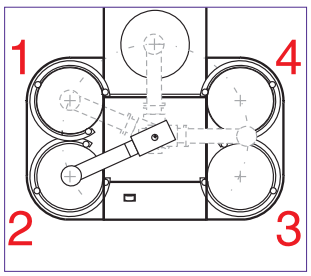
Input Bin - set the input bin for created job
Output Bin - set the output bin for created job

Ordering disc for Alpha duplicators:

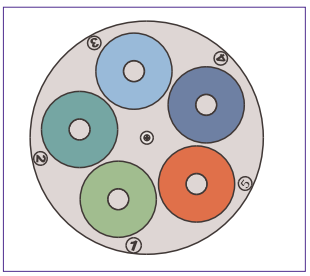


Note: this menu item doesn´t use for duplicators which has one input and one output bin, e.g. Omega, Gamma 2 and Gamma Office One with single bins. You have to use double bins (DB) for Gamma.

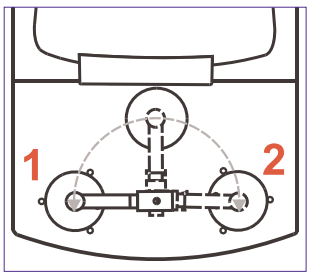
Summary of bins in duplicators:



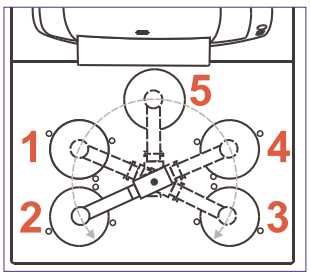
Gamma 2,4 and 7 (DB)



Alpha, Alpha Rack



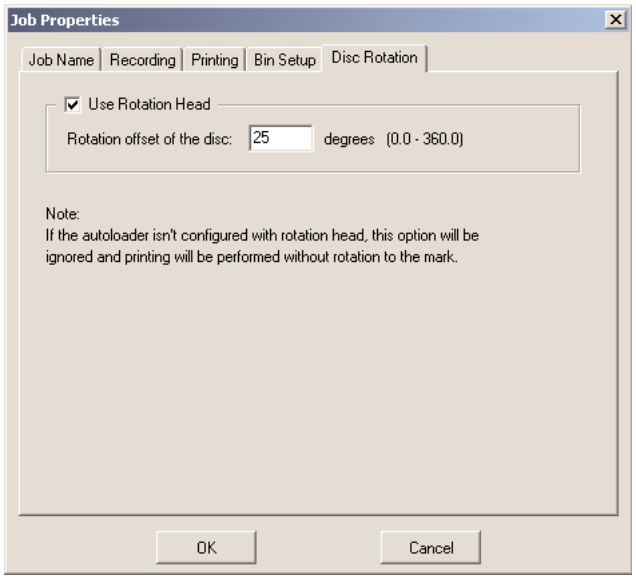
Omega - cannot be used



Delta 3, 5 and 7

Identification Bins: **1** - Rear Left, **2** - Front Left, **3** - Front Right, **4** - Rear Right, **5** - Reject Bin

• Disc Rotation

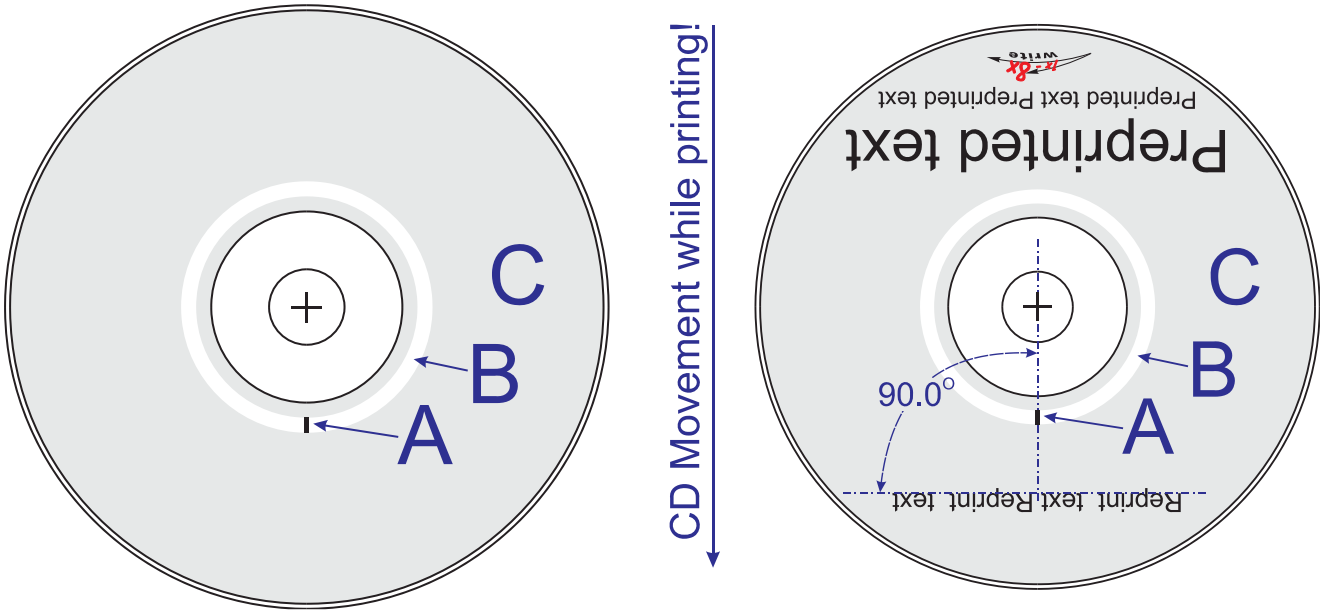


Disc Rotation - The rotation head is used to rotate pre-printed discs to a proper orientation. The following print will be aligned to the pre-printed surface. You have to use discs with a special rotation mark and duplicator must has a special rotation head installed and it must be also configured in configuration dialog. If you have this you can select offset of rotation for all discs in your job. So, you can reprint into specify place on the printable CD.

Disc Rotation - select offset of rotation for all discs in your job. Range of rotation - 0 up to 360 degree.

OK - Click by mouse to *OK* button to save the offset

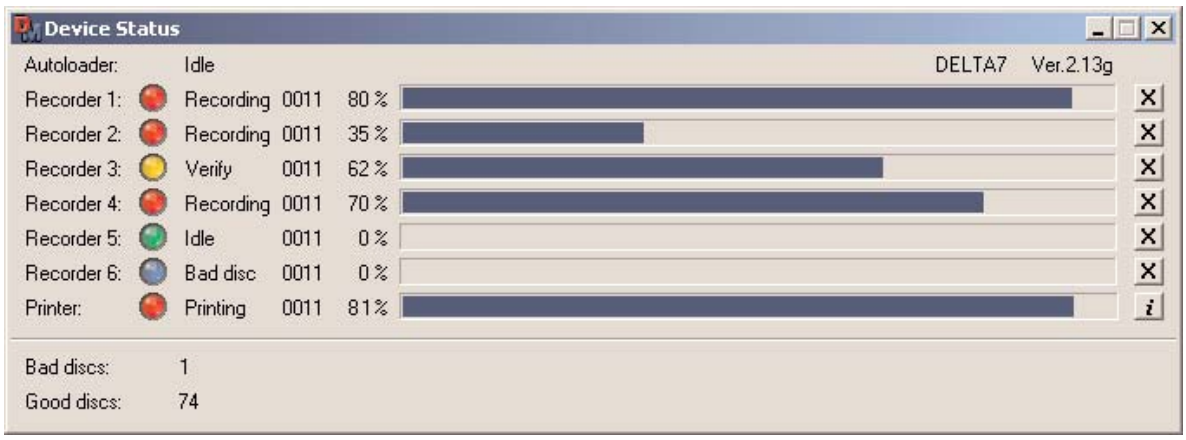
Cancel - Click by mouse to *Cancel* button to continue without save new position.



Short description: **A** - Rotation Mark **B** - Restricted area for print (white ring) **C** - Area for print (gray fill)

4.3 Device Status

This window displays status of the connected devices. It shows status of the autoloader and its version and firmware, status and progress of the each recorders and status of the connected printer. At the bottom of this window you can see quantity of good and bad discs done from the start of Disc Manager. For show this window you can click at the *Device Status* button on the toolbar or you can see it by clicking on the menu *File -->Device Status.*



Tips:

- *Click by mouse to abort process button (square and cross button) on the right position in the Device Status window you can stop process in selected recorder.*

- *If you have ODP100, ODP200 or ODP500 printer and if you move mouse cursor over the Printer label in the Device Status window , you can see ink-level for black, photo and colour cartridges.*

4.4 Read Image

This function reads media and store its image on HDD according to your path. The easiest way how to get this image is through the function *Read Image.* For open following window you can click by mouse to the menu *File-->Read Image* or button *Read Image*from the *toolbar.*

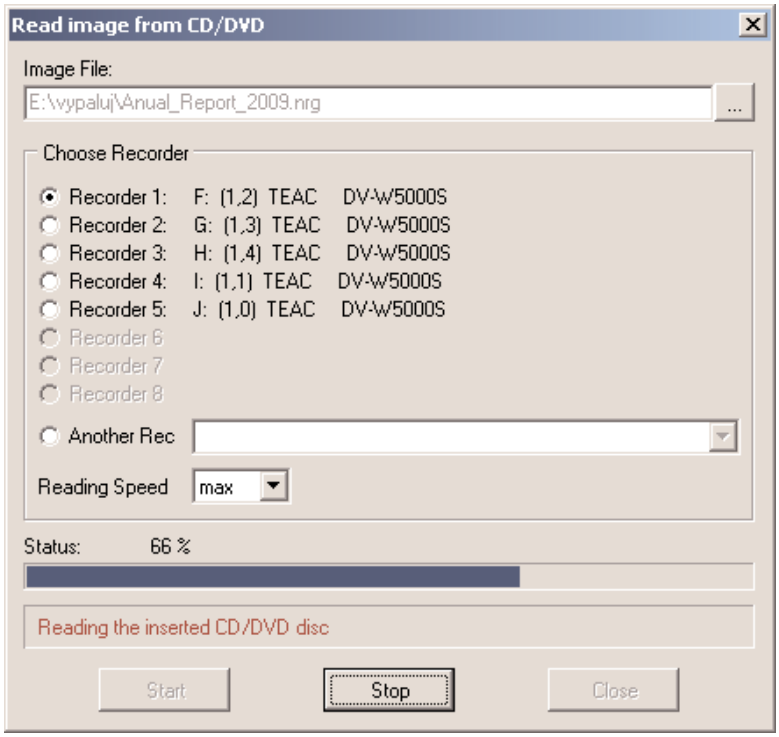


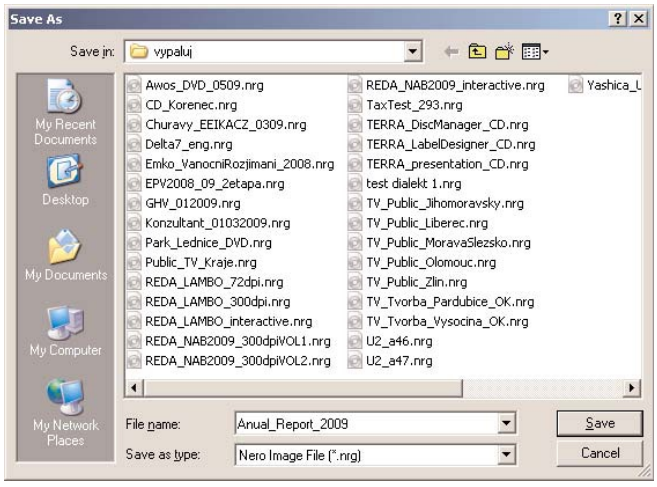
Image File - This dialog there is necessary to choose name of the image file with path to store it onto hard disc. Look at picture below.

Choose Recorder - you can choose some drive configured with autoloader (this recorder will be used for loading and unloading disc).

Another Rec - you can choose any other CD/DVD drive that is installed in your computer (and you will be ask to insert disc manually).

Reading Speed - reading speed which you want use.

If you have set all these things you can click by mouse to *Start* button to begin reading process. For better performance don't use the system HDD (C:) as a target HDD (not save image on system HDD disc).



Insert Image File - Click by mouse to icon Click by mouse to *Save in:*section and choose path. Next type the name for new image and click by mouse to *Save* button. You will be return to previous dialog.

4.5 Disc Xpress

Disc Xpress is a program for creation data CD and DVD. You can start this program from desktop or from the Disc Manager toolbar. *Disc Xpress in not used with the Artmaster 600 printer only version.*

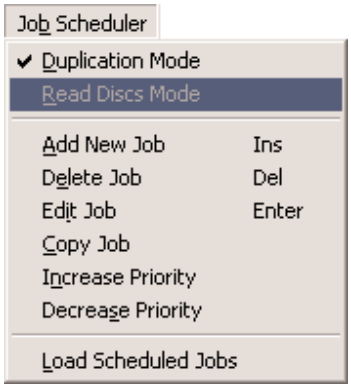
4.6 Label Designer

Label Designer is a program for creation and edit Label for CD and DVD. You can start this program from desktop or from the Disc Manager toolbar. For more or detailed information read the Label Designer separate User´s Manual.

4.7 Exit

Close Disc Manager program. Be sure to stop or end all inserted jobs in the Job Scheduler. You can close this program from the Disc Manager menu click by mouse to *File ->Exit* or press *Alt+F4* from keyboard or click by mouse to icon in right upper corner Disc Manager window.

5. Job Scheduler



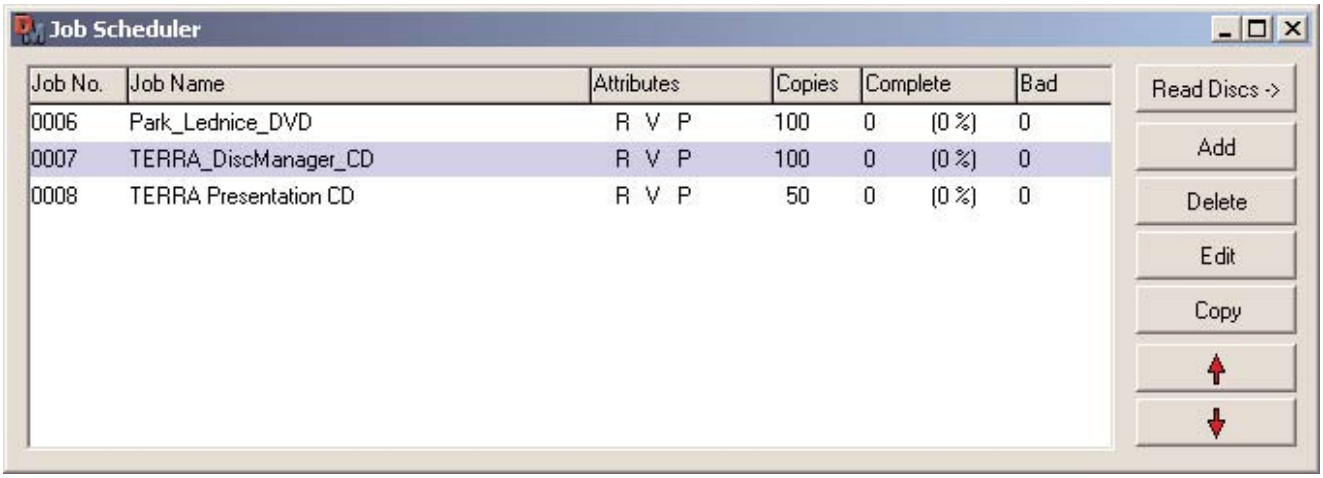
Duplication Mode - Disc Manager can duplicate discs
Read Discs Mode - Disc Manager can only read discs

Add New Job - Add new job into Job Scheduler
Delete Job - Delete selected job from the Job Scheduler
Edit Job - Changes number of copies of the selected job
Copy Job - Does the copy of selected job
Increase Priority - Moves job higher in Job Scheduler to increase its priority
Decrease Priority - Moves job lower to decrease its priority

Load Scheduled Jobs - Loads state of Job Scheduler stored on hard disc

Job Scheduler is main window of the Disc Manager. It shows scheduled jobs. On the right side of the window there are buttons for scheduling. These buttons, in the upper part, can be modificate according license key. So, you can run duplicator in *Duplication Mode* or *Reading Disc Mode*.

5.1 Duplication Mode

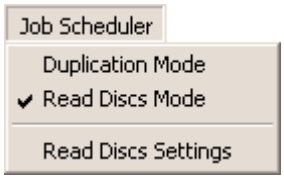


When is enable this mode you can see check mark ahead of *Duplication Mode*in menu *Job Scheduler.*It comes to this, that Disc Manager can read and record jobs include print labels. This is default settings for Disc Manager.

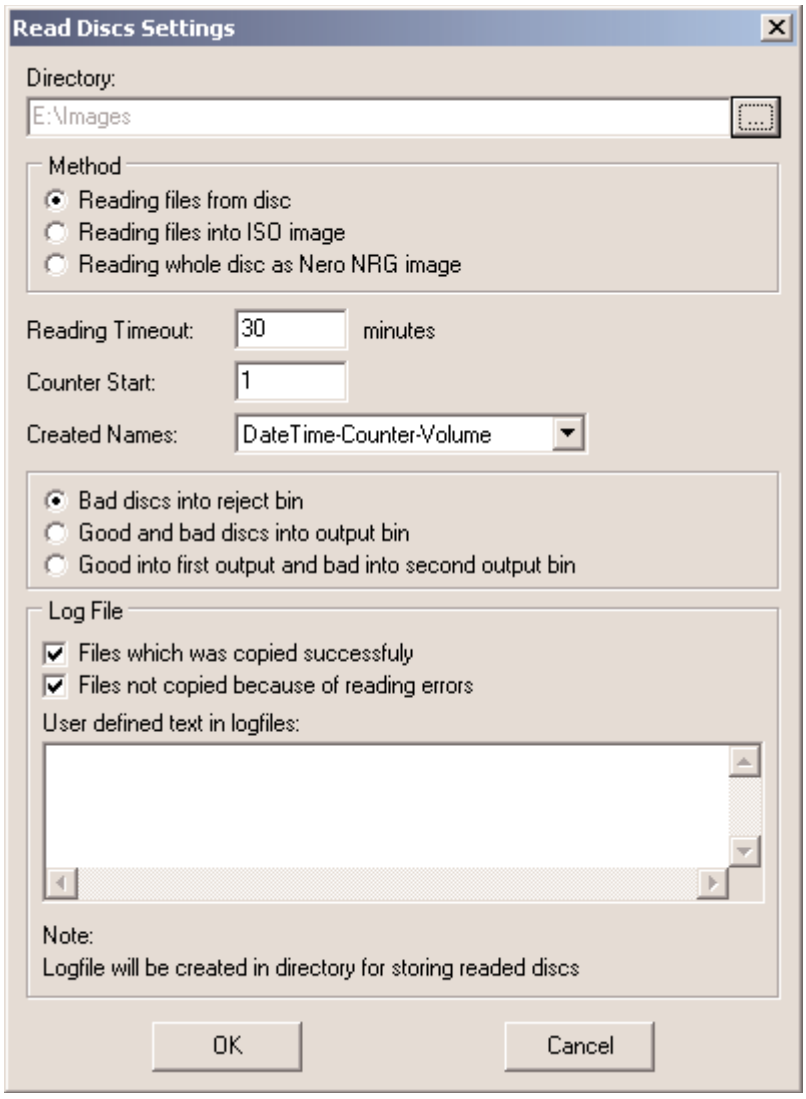
5.1.1 Job Scheduler buttons

Read Disc - Click by mouse to this button and Disc Manager switches into *Read Disc Mode*. In this mode Disc Manager can only read discs and store them onto internal hard disk.
Add - Insert predefined job. Insert Job created in Job Editor.
Delete - Delete inserted job in the Job Scheduler window. This procedure delete only Job. Image and print file aren´t delete.
Edit - Edit inserted job. You can change number of copies of the selected job.
Copy - Copy of selected job. You can make copy selected Job include finished Job.
Arrow Up - Moves job higher in Job Scheduler to increase its priority. You can move selected job up and say which one will be executed first.
Arrow down - Moves job lower to decrease its priority. You can move selected job down and say which one will be executed later.

5.2 Read Disc Mode



With this function you can easily read your data CD or DVD discs and store them onto your hard disc. Content of each disc is stored into individual subdirectory of directory you will define for storing read discs. This function must be allowed by license key that releases you switching between *Duplication Mode* and *Read Discs Mode* in *Job Scheduler* window.



By clicking *Read Disc* button or press *Alt+B+R* from keyboard, the Job Scheduler switches into mode for reading discs and following setting dialog for this is displayed, see left picture.

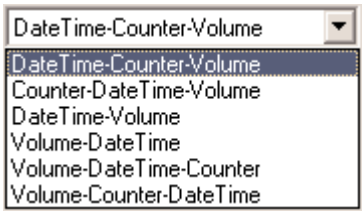
Directory - Here you have to set the directory, where read discs will be stored. It is recommended to store the files on the other disc as System disc (C:\ ).

Method - You can set if there will be stored disc as files, *.ISO or *.NRG image.

Reading Timeout - This feature automatically interrupt reading disc to the computer's HDD when there is disc (CD/DVD) no read for a specified time.

Counter Start - disc counter - starter position number.

Created Names - Every read disc is save into specify directory. Name of this directory has a unique name. Format of this name:

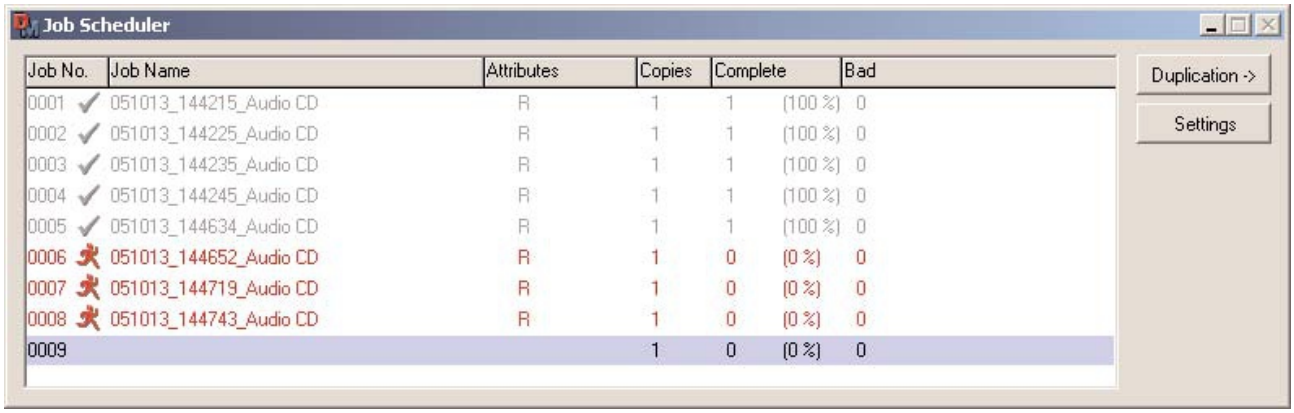


Log File - You can set if there will be logged copied and also not-copied files in the log file. This log file is stored in the directory that you have defined for storing the discs.

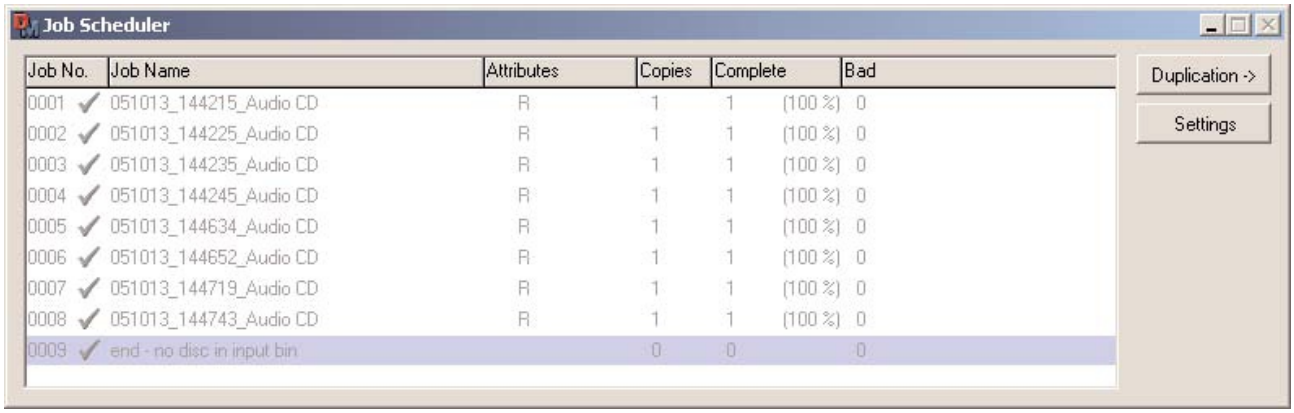
Now, if you click *OK* button the conditions will be save and if you click *Start button* or click the menu *Run/Start*, reading process will start. Whole process runs as long as there are discs in input bin. If it gets empty, reading process will finish.

5.2.1 Jobs and Attributes

After click by mouse to *Start* button on the toolbar or after choose menu item *Run / Start* or*Alt+U+S* , the Disc Manager starts the read disc until all discs have been done or the user stops the process. A job is done when all discs have been saved. Process of the Job is indicated by colour. *Black* colour - jobs are ready. *Red* colour - jobs are running. *Gray* colour - jobs are finished.



Finished, running and ready Jobs



All Jobs are finished

There are several sections in the Job Scheduler window.

Description of Job Scheduler sections:

Job No. - Section for identification jobs, this number is created automatically by Disc Manager
Job Name - In *Job Name* section you can see name of the reading job
Attributes - Attributes for reading file(s)
Copies - *Copies* shows total quantity of discs for reading
Complete - *Complete* shows quantity and percentage amount of finished discs
Bad - *Bad* shows number of bad discs

Used colour into Job Scheduler

Black Colour - Jobs are ready
Red Colour - Jobs are running
Gray Colour - Jobs are finished

5.2.2 Save Files and Images

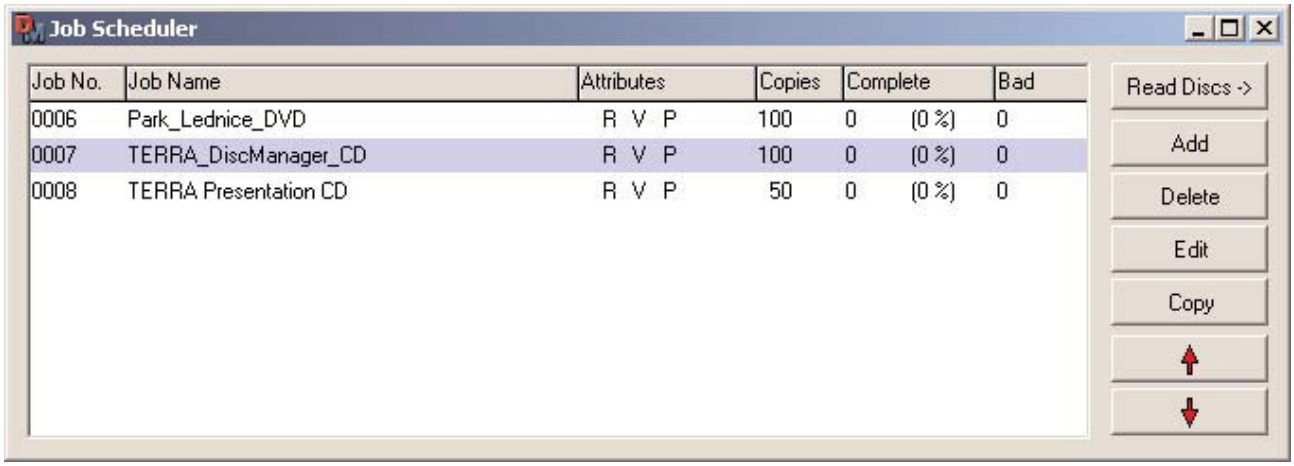
Disc Manager in *Read Disc* mode saves the files or images into specify directory. Name of this directory has a unique name. It consists of *Date &Time, Counter* and *Volume*. You can choose six combination of these. When reading disc hasn´t a volume then Disc Manager fills in type of disc, e.g. *Audio CD.* Maximal length name of the directory is 30 characters. When you want save disc as files then Disc Manager create subdirectory for every disc.

5.2.3 Log Files

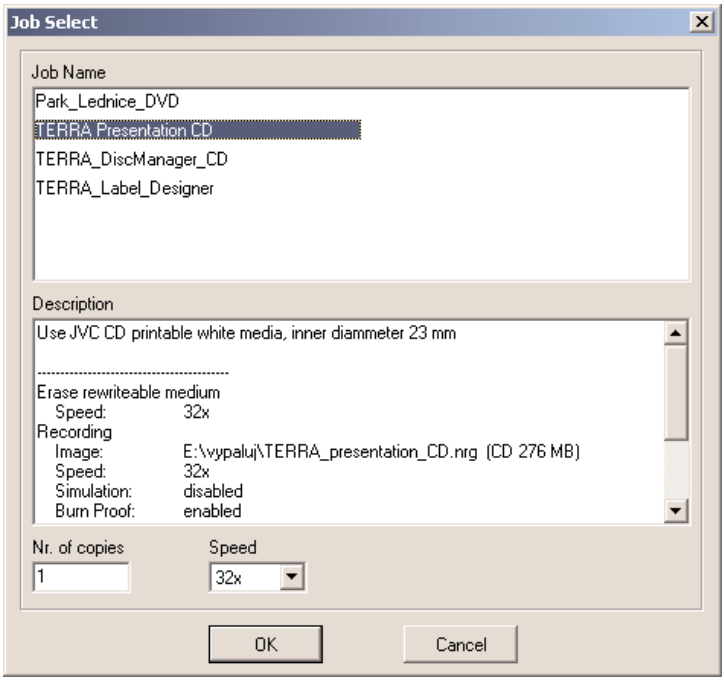
Disc Manager in *Read Disc* mode saves the log files into the same directory where is saved files or images. Disc Manager saves two log files. In the first log file saves list of all reading discs. Its name is *_readme.log*. In the second log file saves list of all reading files. The name of second file is same as name of directory or image. For example: *051013_144225_Audio CD.log* Both logs file are in text format. You can see example log files in *Appendix*.

5.3 Add a new Job

For insert job into *Job Scheduler* window click by mouse to *Add* button onto right side *Job Scheduler* window.



After click by mouse to *Add* button you can see new dialog window:



All created Jobs are showed In *Job Name* window. Click by mouse to select one of them. It will show detailed information about selected job into *Description* window. You can change number of copy and recording speed.

Job Name - This window show all created *Jobs*

Description - This windows show detailed information about selected job.

No. of copies - Number of copy discs which you want produce.

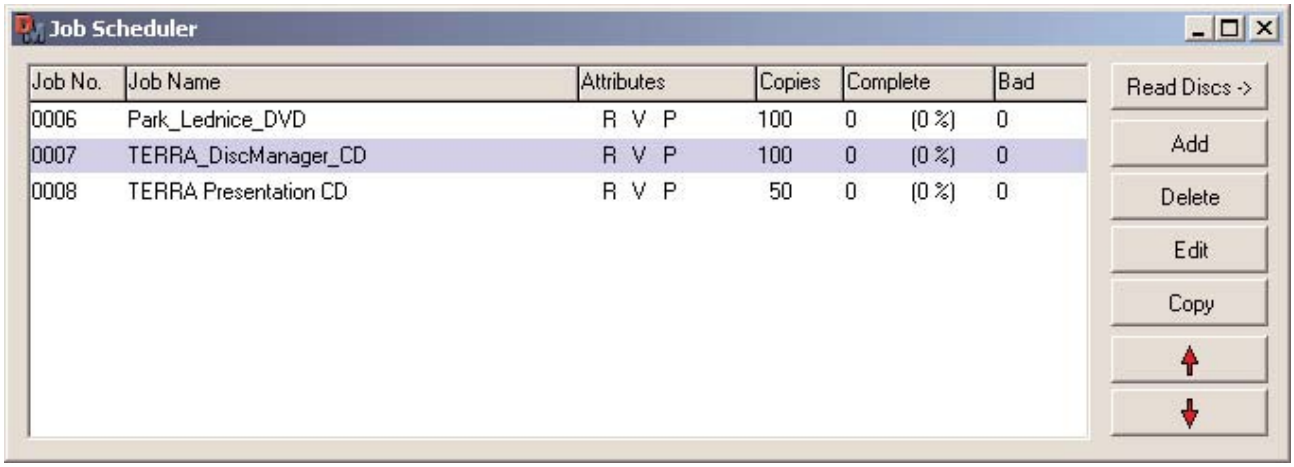
Speed - Select recording speed here

OK - Click by mouse to this button insert selected job into Job Scheduler window.

Cancel - Click by mouse to this button and *Add* job will be cancelled.

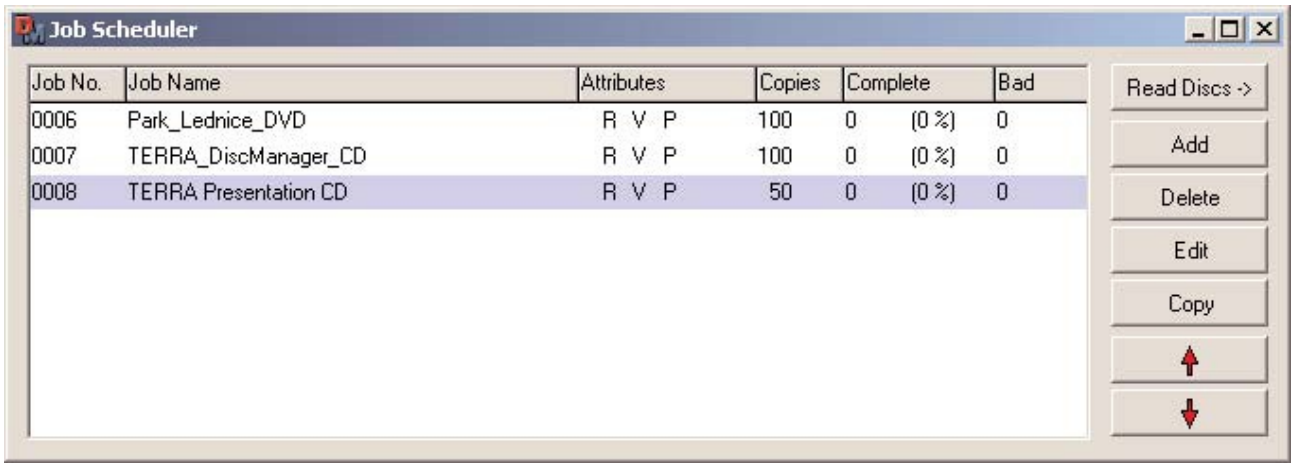
5.4 Delete Job

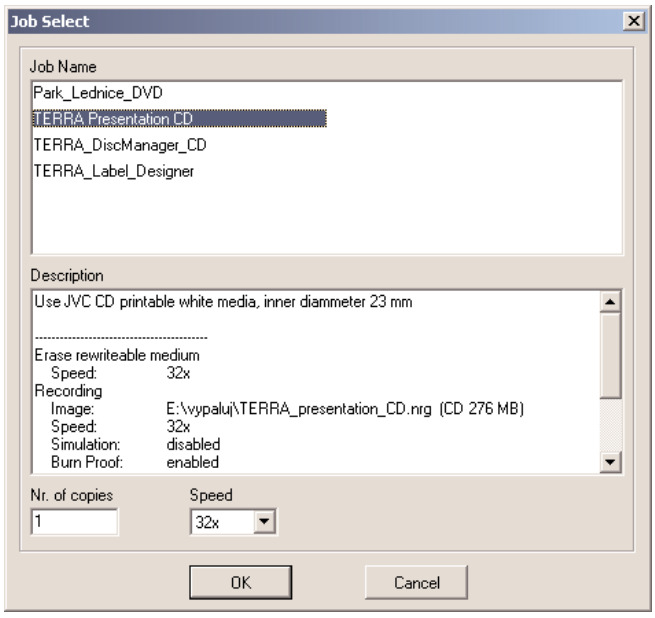
Click by mouse into *Job Scheduler* window to select *Job* which you want to delete. Next click by mouse to *Delete* button for delete this Job. Please confirm to delete.



5.5 Edit Job

Click by mouse into *Job Scheduler* window to select *Job* which you want to edit. Next click by mouse to *Edit*button onto right side *Job Scheduler* window. You can change number of copy and recording speed.





All created Jobs are showed In *Job Name* window. Click by mouse to select one of them. It will show detailed information about selected job into *Description* window. You can change number of copy and recording speed.

No. of copies - Number of copy discs which you want produce

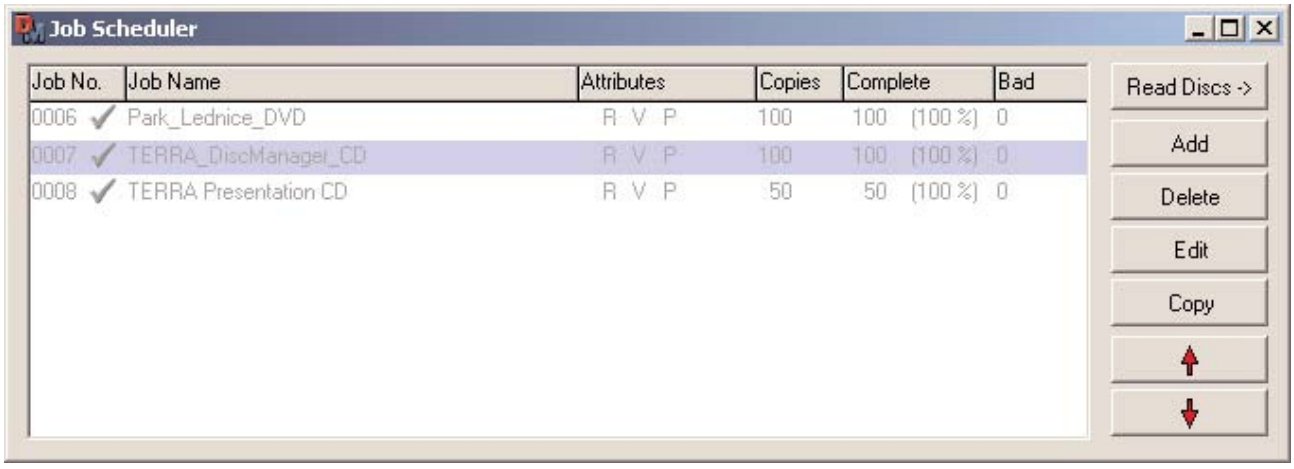
Speed - Select recording speed here

OK - Click by mouse to insert selected job into Job Scheduler window.

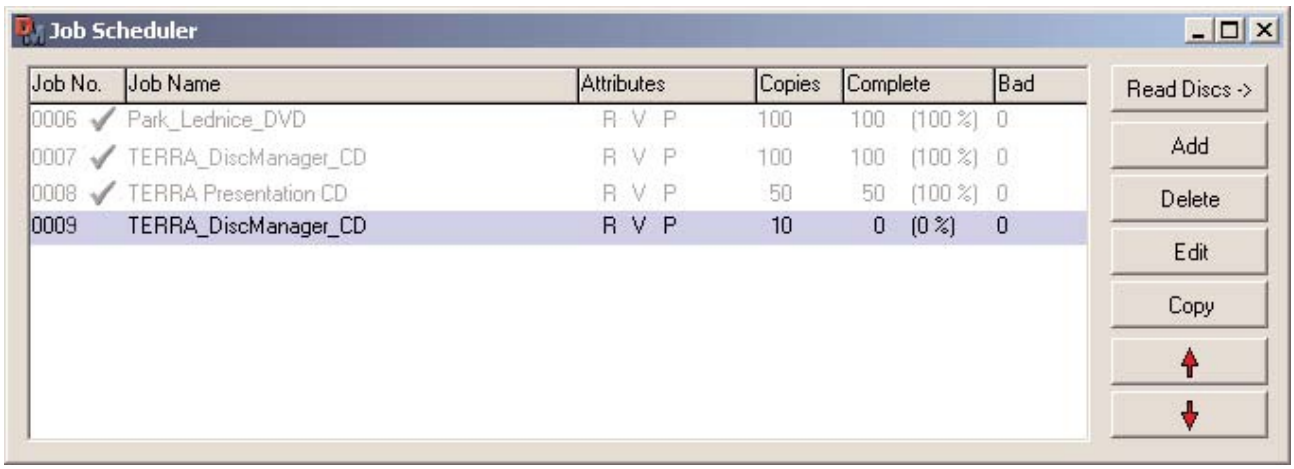
Cancel - Click by mouse to *Add* job will be cancelled.

5.6 Copy Job

*Copy Job*does the copy of selected job. You need produce a few disc after the Job is finished. Exist two possibilities. At first - click by mouse to *Add* button, next browse in the list of jobs, and next select job and then edit job to set copy of disc. At second - click by mouse to job witch you need copy, next click to *Copy* button and then edit job to set copy of disc. See pictures below:



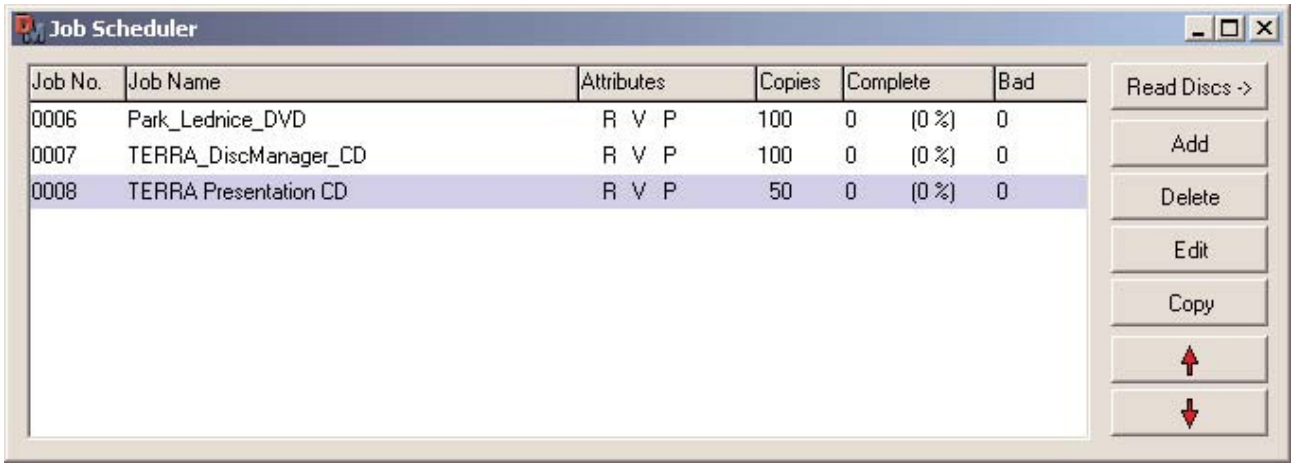
Select job for a copy



Added job No.0009

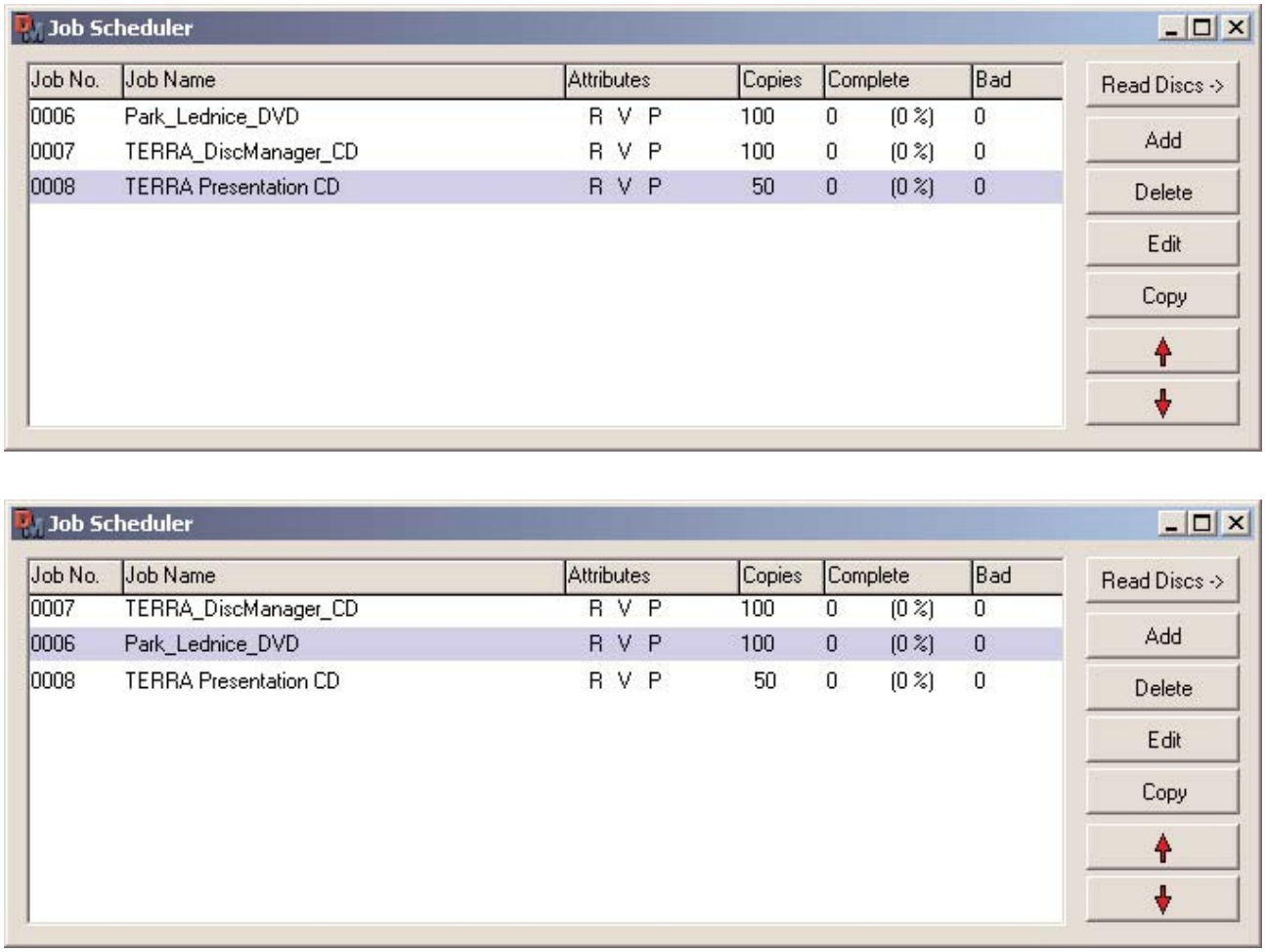
5.7 Increase Priority

After add jobs into *Job Scheduler*and press *Start* button the Disc Manager begins do jobs one by one so, how are sequenced in *Job Scheduler* window. As the first begins duplicate part in first line, then the second line, further third line, ... etc. If you need do job early - you need heighten its priority, then clicks by mouse to required job. Now click by mouse to *Arrow up* button to shift job one row height into list of jobs. You can repeated click and job will move up.



5.8 Decrease Priority

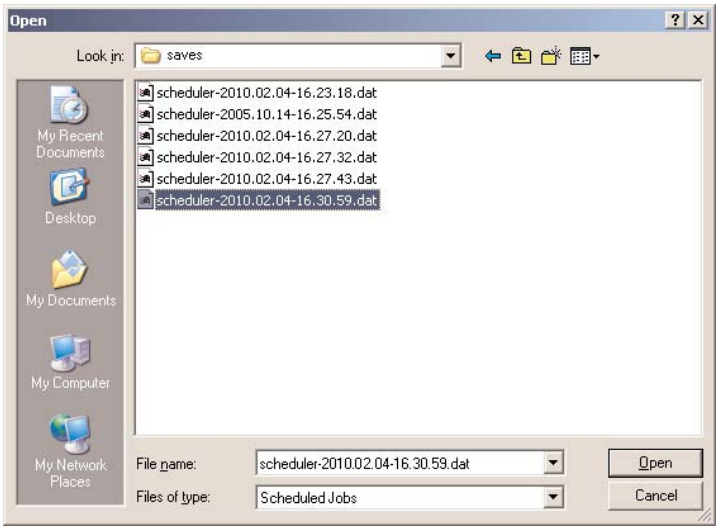
After add jobs into *Job Scheduler*and press *Start* button the Disc Manager begins do jobs one by one so, how are sequenced in *Job Scheduler* window. As the first begins duplicate part in first line, then the second line, further third line, ... etc. If you need do job later - you need reduce its priority, then clicks by mouse to required job. Now click by mouse to *Arrow down* button to shift job one row below into list of jobs. You can repeated click and job will move down. See pictures below:



Decrease priority - job No:006

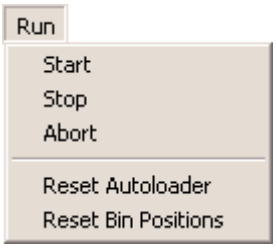
5.9 Load Scheduled Jobs

During duplication the Disc Manager saves actual state of jobs into *Job Scheduler*. These files are in subdirectory *Saves.* Full path: *C:\Program Files\Disc Manager\disc manager\data\saves*.dat.* So, you can load earlier scheduled jobs. For load schedule jobs into *Job Scheduler* window click by mouse to: *Job Scheduler->Load Scheduled Jobs.* Into open dialog window select last or earlier file. Click to open and *Job Scheduler* will load this file. You can see loaded job into *Job Scheduler* window.



The Disc Manager keep last fifty files into *C:\Program Files\Disc Manager\disc manager\data\saves*.dat* directory.

6. Start



Start - Runs duplication process
Stop - Stops duplication process after finishing already started discs
Abort - Stops process as soon as possible. If disc is recording it will destroy this disc

Reset Autoloader - This is for calibration loader for its default position
Reset Bin Positions - Loader will forget levels in each of bins and set these levels to default values

6.1 Start

Insert empty CD or DVD discs (blank or printable discs) into input bins. *Add* job into *Job Scheduler*- see chapter *5.3 Add a new Job* and click by mouse to *Start* button on the toolbar or from menu *Run->Start* or from keyboard *Alt+U+S.* The Disc Manager starts the duplication until all jobs have been done or the user stops the process. Jobs are process from top to bottom. A job is done when all discs have been produced.

6.2 Stop

You can stop job when is running. Click by mouse to *Stop* button or from menu *Run->Stop* is for interrupt production process. This function does not destroy any disc, because duplication process is stopped after already begun CD or DVD.

6.3 Abort

You can *Abort* job when is running. Click by mouse to *Abort* button or from menu *Run->Abort* to stops duplication process as soon as possible. If there are discs in the recorders and burning is proceeded, then these discs are destroyed and puts into reject bin. This function stops the production process immediately. If there is disc in a printer and printing is proceeded, then this disc will stop after print is finish.

6.4 Reset Autoloader

It makes software reset of the loader for set its default position. Click by mouse to menu: *Run -> Reset Autoloader.* Lifter will move to the left side and next to the right side and stops in its default position.

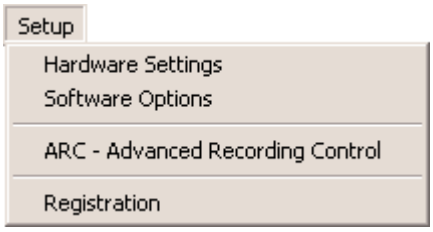
6.5 Reset Bin Position

You can set default head position for all bins. Click by mouse to menu: *Run -> Reset Bin Position* head will forget levels in each of bins and set these levels to default values.

Tip: *Don't manipulate with CD or DVD in input and output bins during the duplication process. Disc Manager remembers number of discs and positions where it picks last disc. And if you take some disc from the output bin during work the autoloader cannot find out new proper position. So, if you take some disc from the output bin the autoloader will putting them from high.*

7. Setup

This menu makes it possible to settings automatic duplicator when is connected.

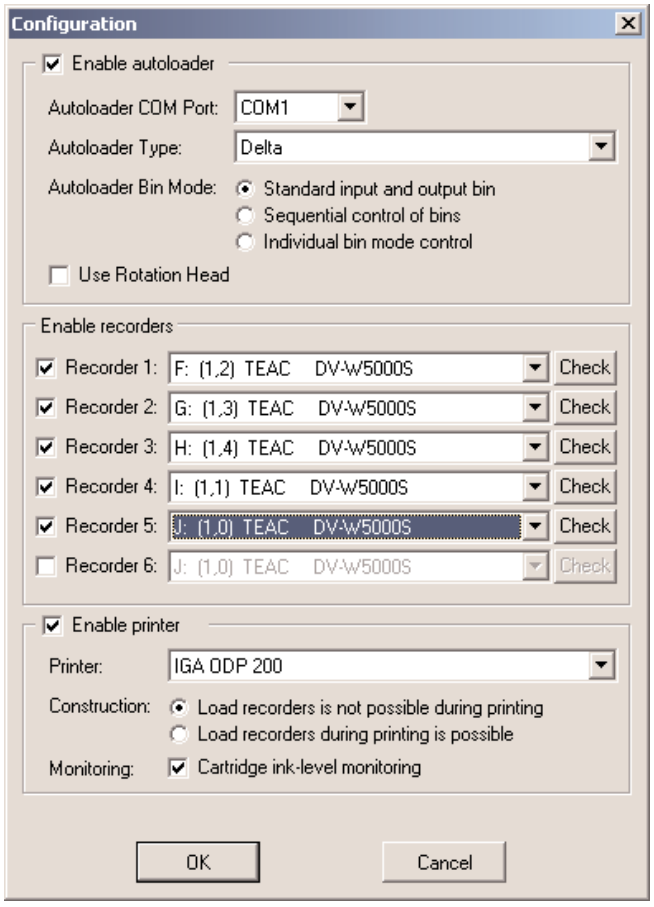


Hardware Settings - Settings of your autoloader, recorders and printer
Software Options - Variable adjustments

ARC - Tool for automatic duplication from directory

Registration - Shows registration dialog for insertion the license key and owners data

7.1 Hardware Settings



First the most important thing you have to do you must configure your hardware. Click by mouse to menu: *Setup -> Hardware Settings* to open hardware configuration window. There are three types of devices which you must configure. Your autoloader, your recorders which you have connected and printer.

Enable autoloader - Click by mouse to a little window you enable autoloader. If is disable (without check mark) then you can use the Disc Manager in manual mode. In manual mode is disabled printer and you have allowed jobs only with recording and without printing.

Autoloader COM port - serial port for control automatic duplicator. You must set No. of serial port which is used for communication with your loader.

Autoloader Type - you must select type of your autoloader. At this moment is supported Gamma, Samurai, Alpha, Omega, Delta, Shuttle and Printer autoloader. For more info contact Copytrax .

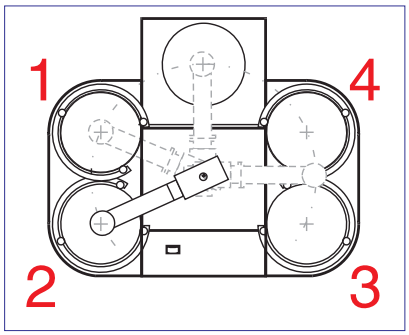
Autoloader Bin Mode - here are exist three possibilities:

Standard input and output bin - for duplicators with one input an one output bin. E.g.: Alpha, Omega, Gamma 2

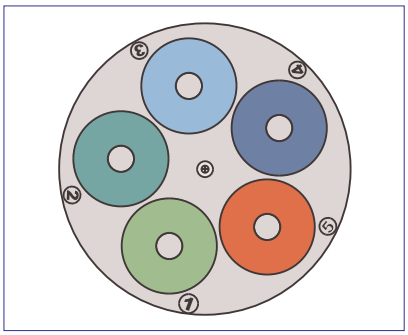
Sequential control of bins - for duplicators with double input and output bins. At the beginning the you fill bins (1), (2), and (3) by CD/DVD disks. See pictures on the next page. Autoloader loads from bin 1 and unloads to bin 4. When the bin 1 is empty loader goes to bin 2 and loads from it and unloads to emptied bin 1. When bin 2 is empty loading is from bin 3 and unloading to bin 2. Loader reports error after the last input bin 3 is empty.

Individual mode control - for duplicators with double input and output bins only. Two independent input bins and two independent output bins. This is special mode which must be supported by the control system. Input bins are on the left (1), (2) and output bins (3), (4) are on the right side.

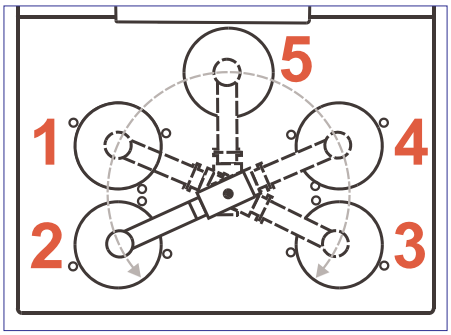
Sample bins:



Gamma Bins



Alpha Bins



Delta Bins

Use Rotation Head -There is item for rotation discs to index mark by use a special rotation head. For more information read chapter *4.2.1 Create New* section *Disc Rotation.*

Enable Recorders - In this section you can select how many recorders you will use and which of this will you use. At the right side of each recorder is *Check* button. This button is for checking if selected recorder is really recorder with right position in duplicator tower. After click this button the Disc Manager ejects and close tray of selected recorder. You have to check if it was recorder in right position. When you have connected autoloader through the Fire-Wire you pay attention to right right recorders positions.

Note: *Number of used recorders is enable by license key. You can´t use recorders more then is enable.*

Enable Printer - Click by mouse to a little window you enable the printer.

Printer - you have to select type of your printer and correspondent printer drive that you have installed in Windows. The most often used printer are ODP100, ODP200,ODP500 and P55.

Construction - Construction of some printers don't allow you to print during autoloader movement, because their tray goes out of printer during printing. For these type of printer is necessary to set *Load recorders is not possible during printing,*e.g. Signature printers. Other printers are printing inside the printer so the loader needn't wait for printer tray, e.g. ODP100, ODP200, ODP500, ...

Load recorders is not possible during printing - for printers whose tray goes out during printing
Load recorders during printing - for printers which are printing inside the printer

Monitoring - If you have ODP100 or ODP200 printer then you can check monitoring ink levels in cartridges. Then Disc Manager is checking this level and if there is no ink, warning message will displayed.

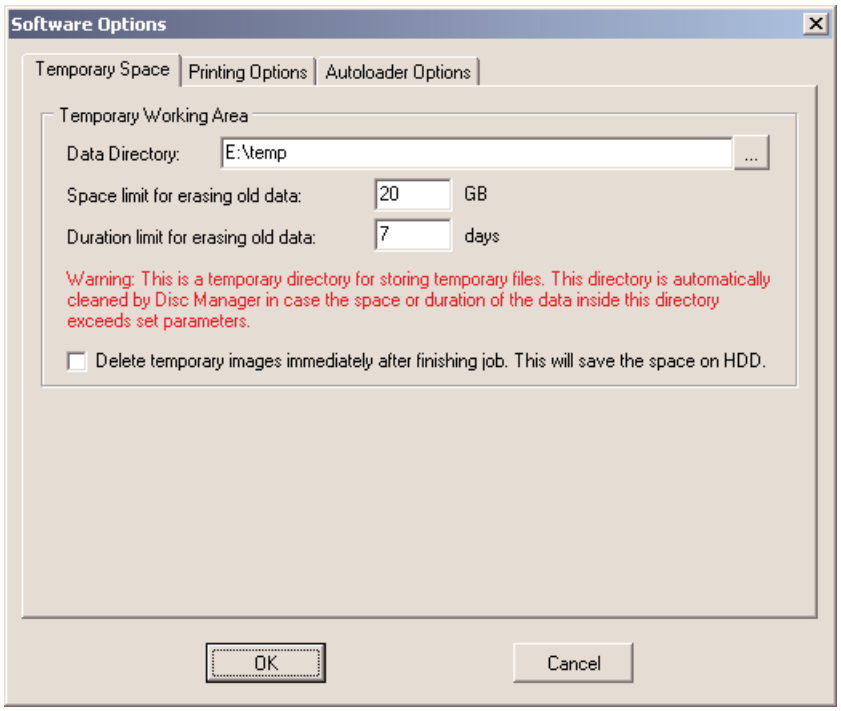
Important note: *If this will not be configured correctly, Disc Manager will not work properly!*

7.2 Software Options

When Disc Manager is installed then you must set the environment variable. After Disc Manager starts click by mouse to menu *Setup -> Software Options.* In opened *Software Option*window you can see three bookmarks:

- ***Temporary Space*** - set-up all necessary parameters for good function the Disc Manger software
- ***Printing Options*** - set-up important parameters for good function printer and set-up parameters for printing PDF file
- ***Autoloader Options*** - set-up important parameters for accurate function connected Autoloader.

7.2.1 Temporary Space



In ***Temporary Working Area*** you can set-up working *Data Directory*, *Space Limit* and *Duration limit* for delete all temporary files.

Data Directory - you have to create directory for temporary files. Click by mouse to "...". In the new window select disc and create directory. Disc Manager loads files and images into this directory. It should be fastest disc into your computer, but should not be disc with Windows. If it is the operating system on a disc C:\, then you select *Data Directory* on the another physical disc, e.g. E:\Temp.

Space Limit for erasing old data - this function watches available free space on the selected disc. When available free space is less than limit (20GB on the picture) then Disc Manager shows request for release the space on the disc and job will not running.

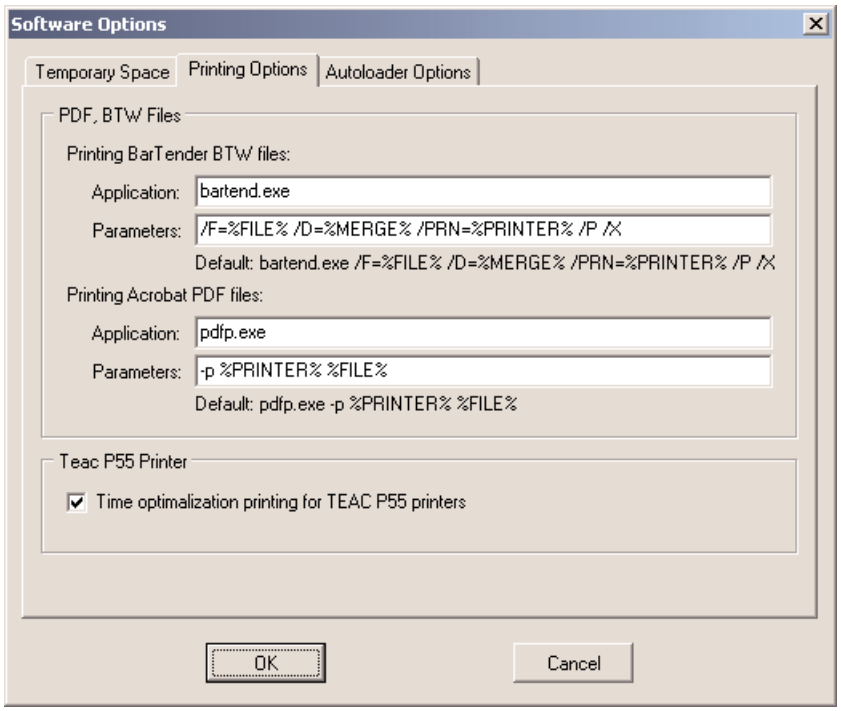
Duration Limit for erasing old data - this function set-up the period in days. For the duration of period are keeping all files in the temporary directory. If period is finishes then Disc Manager will delete all expire files.

Delete Temporary images - Click by mouse to a little window you enable *Delete temporary images* after job is finishing.

Tips:

- *If you will create the Data Directory on the same disc where you saved images (e.g. E:\Images) then Disc Manager will not copy this image into Data Directory. Disc Manager uses this image from current position and this image will not delete.*
- *For CD you need 1 GB available free space on the HDD. For DVD +/-R you need 5 GB available free space on the HDD and for DVD-DL you need 10 GB free space on the HDD.*
- *You **NOT** save images (*.nrg, *.iso) into Data Directory because when duplication finishes the images **will be DELETED !!!***

7.2.2 Printing Options



In *Printing Options* you can set-up working environment for external software *Bartend.exe* and you can on/off optimalisation for *Teac P55 Printer*.

Printing BarTender BTW files:

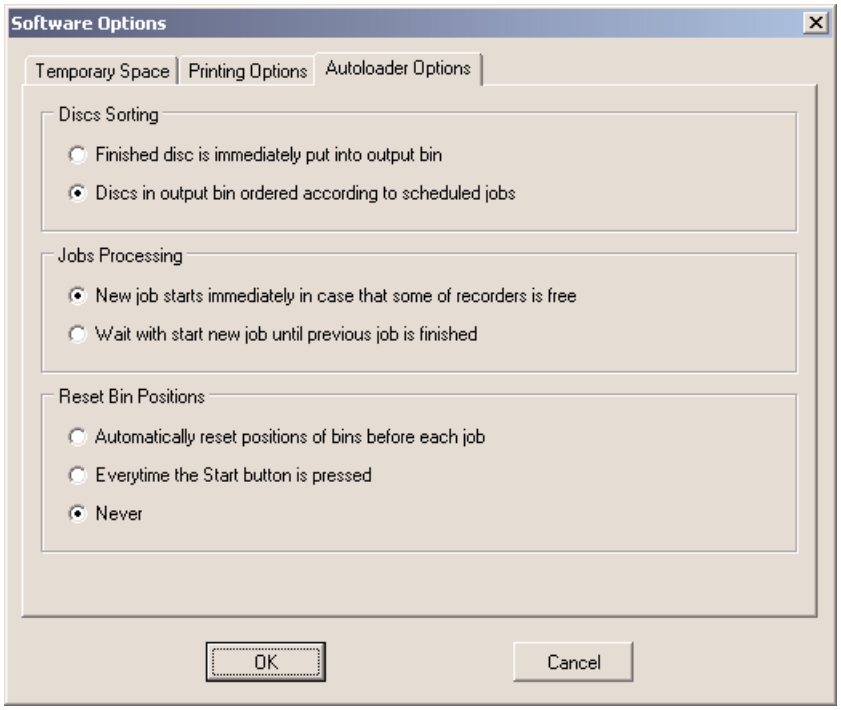
- ***Application -*** Your choice of an external program, e.g. bartend.exe
- ***Parameters -*** Parameters of an external program, look at the User Manual of used external software.

Printing Acrobat PDF files:

- ***Application -*** Your choice of a external printing program, e.g. pdfp.exe
- ***Parameters -*** Parameters of a external program, look at the User Manual of used external software.

Teac P55 Printer - on/off optimalisation

7.2.3 Autoloader Options



In *Autoloader Options* you can set-up working environment for connected autoloader.

Discs Sorting, one of two possibilities:

- ***Finished disc ...*** - When disc is finished then disc is immediately puts into output bin.
- ***Discs in output ...*** - When disc is finished then disc is puts into output bin according as Job was scheduled.

Jobs Processing, one of two possibilities:

- ***New job ...*** - When you insert a new Job then new Job starts immediately if one or more of recorders are free.
- ***Wait with ...*** - When you insert a new Job then new Job will wait until previous Job is finished.

Reset Bin Position, one of three possibilities:

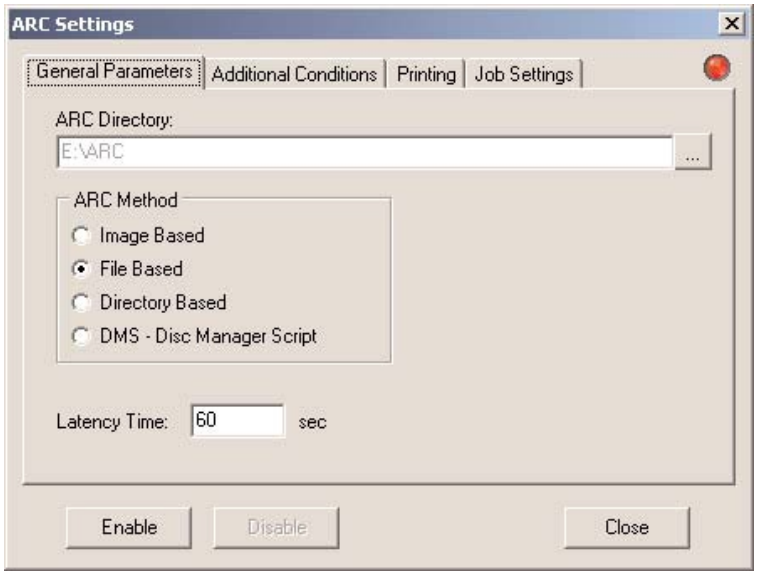
- ***Automatically ...*** - Every Job starts (pick CD/DVD) from input bin one.
- ***Everytime the ...*** - Inserted Job starts immediately.
- ***Never ...*** - New Job starts (pick CD/DVD) from bin where stops last Job.

7.3 ARC

This function must be allowed by license key. ARC - Advance Recording Control is easy and powerful tool for automation of the recording and backup processes in network environments. ARC makes you possibility to record CD or DVD from various computers in the local network without installing any special software.

The principle is very easy. There is some directory (shared network directory) defined by user which is permanently monitored by ARC function. When there are some data and these data are not changed during monitoring, the ARC interprets these data as prepared for recording. Then the job is created and inserted into Job Scheduler.

For open ARC dialog window you have to click the menu Setup/ARC - Advanced Recording Control. By clicking it the following window is shown.



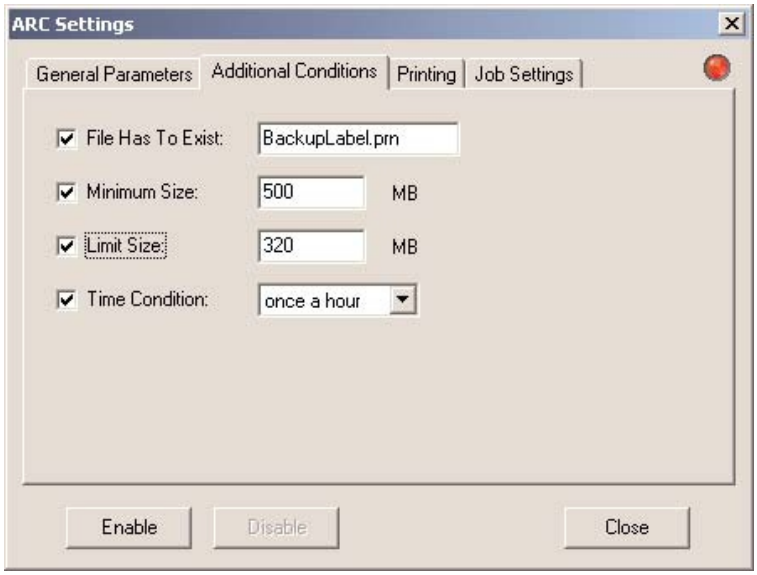
General Parameters - This bookmark is for setting main parameters of ARC function.

ARC directory - Is directory which is monitored by this function. It is usually some shared local or network directory. Click by mouse to ... icon and browse the ARC directory. Then click to *Open.*

ARC method: In *ARC Method* section you can select from three various methods:

- ***Image Based:*** If some image is detected by ARC in monitored directory, this image will be recorded by Disc Manager.
- ***File Based:*** the ARC directory is monitored as a whole and if data inside is not changed, image from this data is created and then recorded by Disc Manager.
- ***Directory Based:*** in the ARC directory there is collection of several subdirectory and each is monitored separately.
- ***DMS - Disc Manager Script:*** DMS files are insert into the ARC directory and it´s monitoring by ARC. When conditions occurs then Disc Manager executes the DMS file. You can use the DMS file (*.dms) and Rimage script file NWP (*.nwp). If you know more look at *19.11 How create DMS file* chapter.

Latency time - Latency time defines time interval between monitoring ARC directory. Action is starts when all conditions are without changes for a two latency period.



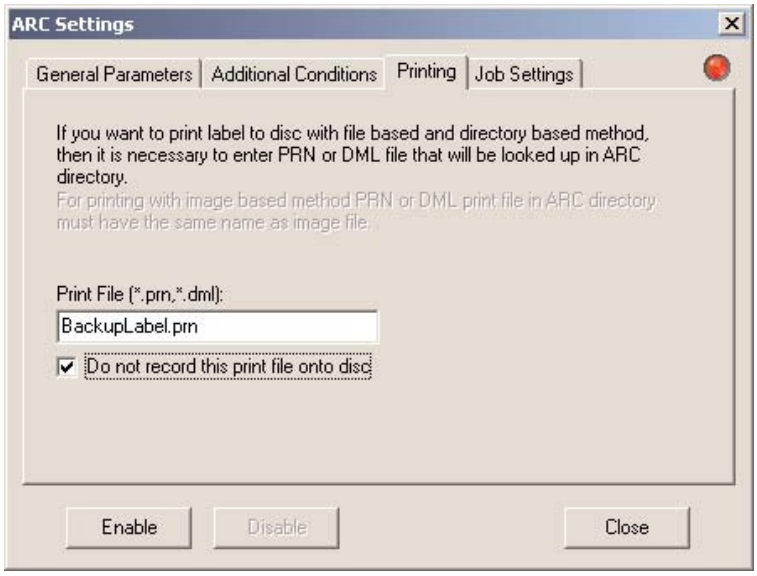
Additional Conditions - This bookmark specify other conditions for creating job. There is condition for file which has to exist, for minimum size of data in ARC directory and time conditions:

File Has To Exist - This is condition for file which has to exist. When this condition occurs then ARC will test other conditions and next create image and record CD or DVD.

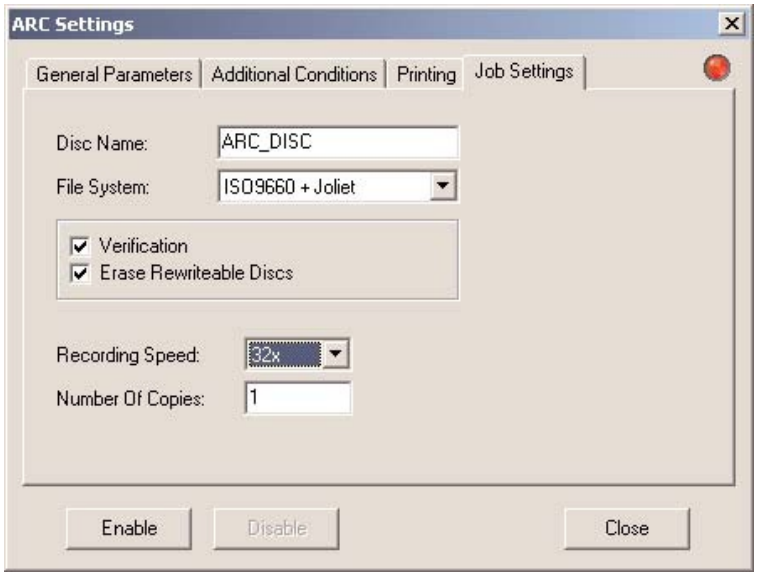
Minimum Size - This is condition for minimum size of all files inserted in the ARC directory. When this condition occurs then ARC will test other conditions and next create image and record CD or DVD.

Limit size - This is condition for limit size of all files inserted in the ARC directory. When new arriving file is over the limit then ARC doesn´t record this file on CD or DVD. This file (files) stays in the ARC directory and will be use later.

Time Conditions - This condition says how often ARC tests the switch-on conditions - a hour, a day, a week.



Printing - This bookmark is for printing label onto the recorded disc. You can use this printing file also as a condition *File has to exist* for job start. For this option you have to use the printable disc (for ink-jet printer). You can enter *.prn file from driver or *.dml file from the Label Designer. If it is use *.dml file then it can be use serialisation, merge field or insert actual date and time. If you know more look at Label Designer´s User Manual.



Job settings - Last bookmark *Job Settings*is for definition job parameters.

Disc Name - specifies the disc volume name.

File System - specifies the uses file system. It can be set: ISO9660, ISO9660+Joliet and UDF

Verification - This function allows comparison of copy and master image, to make sure there are no detectable differences.

Erase Rewritable Disc - Use this menu option to start erase the data on the CD/DVD-RW disc.

Recording Speed - Maximal recording speed for data CD and DVD isn't restricted. But Copytrax recommends to all their customers not use the maximal speed. Please setup recording speed according used media but you use recording speed lower than maximum.

Number of Copies - You can enter a number of copy. Default is 1.

Enable - If you have all ARC parameters defined you can run ARC function by clicking *Enable* button. Then indicator in the right top corner gets green and it indicates that ARC is running. Also in status bar in main window of the Disc Manager shows that ARC is running.

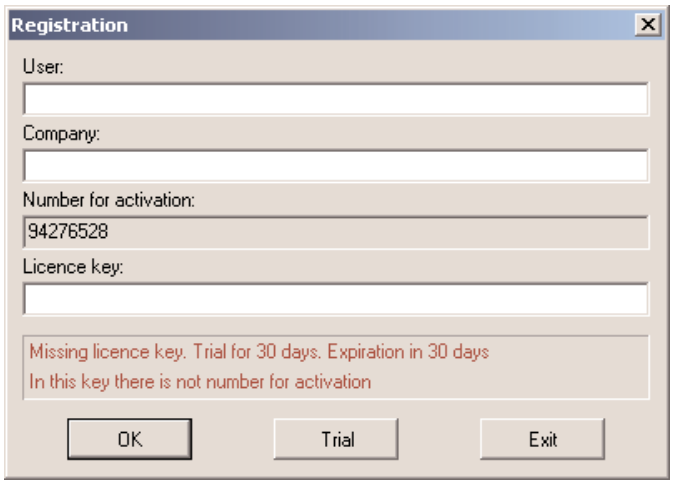
Disable - If ARC is running you can stop ARC function clicking by mouse to *Disable* button.

Close - close ARC setting window.

7.4 Registration

If you start the *Disc Manager*for the first time, the *Registration* window is displayed. If you click on a *Trial*button, the *Disc Manager* will work in a trial mode. Functionality of trial mode is 30-days with 4 writers and 1 printer. Functions *Network, Serialisation, Read discs* and *ARC* are in trial mode not allowed. After you buy license key (by your dealer or on the www.copytrax.com) with functions you need, fill in the registration window with your name, company and license key.

Registration window after first start:



User - Name of the user.

Company - Company name - type the company which bought the Disc Manager software.

Number for activation - This number you have to send to Copytrax support@copytrax.com tpgether with the Autoloader serial number. A license key will be provided by e-mail at our earliest opportunity.

License Key - Insert a valid registration key. The license key will activate your purchased features in Label Designer and Disc Manager. You receive the license key after sending the activation key.

OK - Press *OK* button to confirm

Trial - Press *Trial* button and the Disc Manager will work in Demo mode for 30-days.

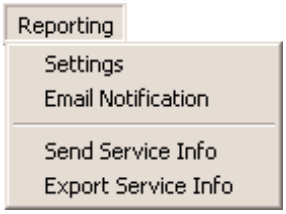
Exit - Press *Exit* button to cancel the Disc Manager program.

Disc Manager features which can activate thorough the registration key:

- NET
- Manual mode
- ARC
- Autoloader
- Reading discs
- DMS
- Label Designer - serialisation
- Label Designer - Bar Code
- Label Designer - Merge Field

8. Information

Use this menu when you want be informed by mail to complete jobs that were running on Disc Manager. For setting up this item you will have to ask your network administrator. You will need host address, port number and create addresses (accounts) for the duplicator.

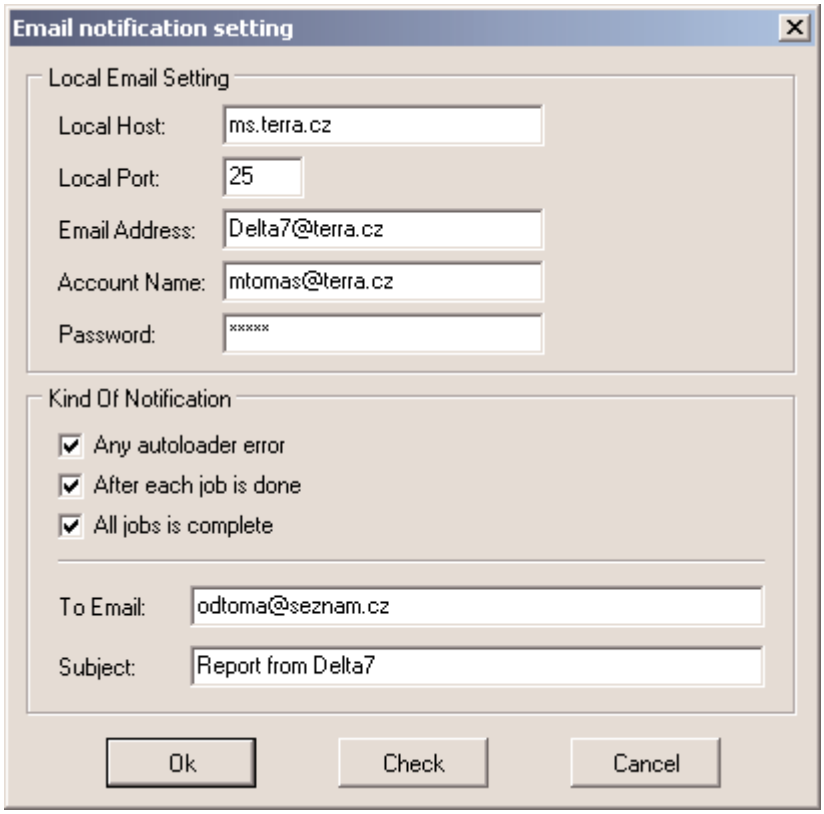


Settings - Setting up this function
E-mail Notification - Enable or disable this function

Send Service Info - It will sent Disc Manager service logs
Export Service Info - Pack the service logs (ZIP)

8.1 Settings

In this section, set the environment and conditions for information on a completed jobs and error conditions in the disc duplication and printing. Click by mouse in the *Reporting -> Settings*to open the following dialog box:



Local E-mail account: Enter the address of the hostile obtained from your network administrator.

Local Port: Enter the port number obtained from your network administrator.

Your address: Enter the E-mail address duplicator obtained from your network administrator.

Type of notification: You can select what information will be sent Disc Manager. The choice you make by checking the box prior to the information you want to send you.

The e-mail: Enter the E-mail address where to send information about jobs.

Subject: Enter a sentence which will be subject of e-mail.

Test: Click this button to send a test mail. You'll see the correctness of the set conditions for sending mail.

Click *OK* to confirm the settings, click *Cancel* to exit from dialog without changing any settings.

Samples of sending informations:

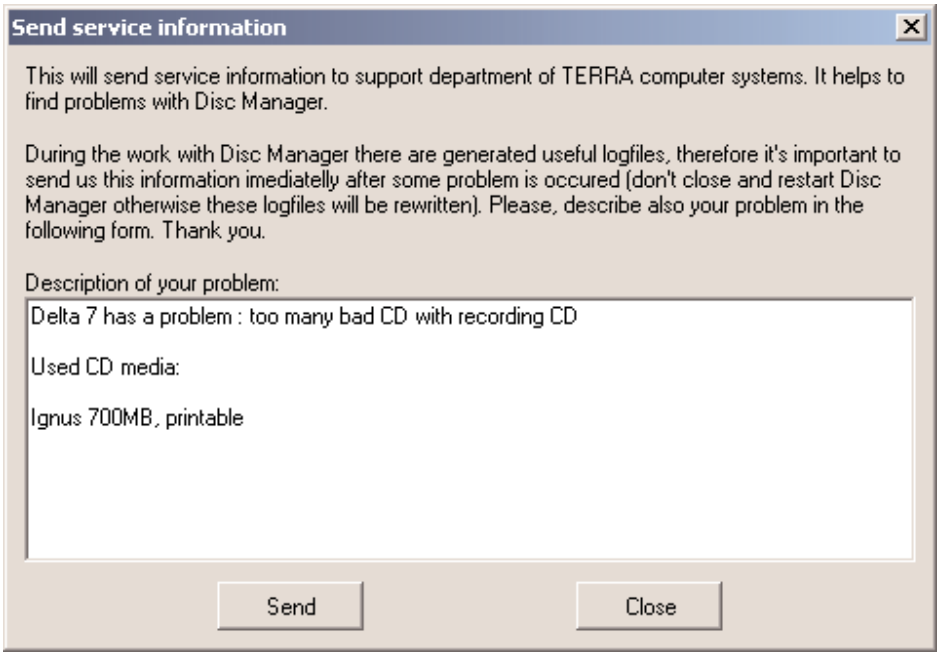
Disc Manager - email test	Job finished: Delta_cz_zapis (0100)
Message after click on the Test button.	*Message when duplication was finish (100 pcs discs)*
All jobs are finished	Autoloader error: Status 2 - No disc at the position
Message when all jobs was finish	*Message when autoloader error*

8.2 E-mail notification

Click by mouse on the menu item *Reporting -> E-mail Notification*to activate this function. In the menu is a check mark appears before this function. Now mails will be sent to the address after completing the set conditions. To stop receiving mail, click on the menu item *Reporting -> E-mail Notification* by E-mail and function is deactivated, removed the check mark from this feature.

8.3 Send Service Info

Through this function, you can send service information to a technical support centre.
These logs will be sent from the program and your Disc Manager description of the problem. Log files contain all the necessary service information that is useful in finding the cause of the problem. After clicking the mouse in the *Reporting-> Send Service Information* window appears as follows:



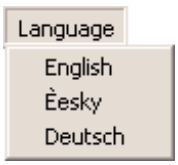
Click to *Send* button you will send the log files, click to *Close* button you will exit from dialog without sending mail. This feature it needs access to an Internet.

8.4 Export service info

Through this function, you can create a file *service.zip.* This file will contain all the service information (log files), useful in finding the cause of the problem. The information contained in this file are the same as in the previous case (Section 9.3). The difference is only in the manual dispatch of this file. This file can be sent to technical support support@copytrax.com After created a message, you will inform on the monitor, see following picture You can see the file's location:

Click to *OK* close the dialog window.

9. Language

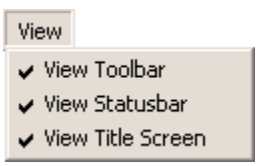


Switch between supported languages. In the present time are support:

- English
- Czech
- Germany

Click by mouse into Menu *Language->[eng /en /de]* activates the menu selected in the national language. The menu is a check mark appears before the chosen language.

10. View



View Toolbar - Display or hide the Toolbar
View Status bar - Display or hide the Status bar
View Title Screen - Enable or disable view the start screen with logo.

10.1 Toolbar

Click by mouse to *View->Toolbar show or close the Toolbar.* When item is enabled then menu is a check mark appears before the View Toolbar item.

10.2 Status bar

Click by mouse to View->*Status bar* show or close the *Status bar.*Status bar is situated in bottom parts of the Disc Manager window. Status bar shows following informations:

Autoloader type: it shows type of the autoloader which is connected (e.g.: Alpha, Delta, Gamma, Omega, Shuttle, Samurai, DiscJet)

Firmware version: version of the firmware installed in the autoloader.

NET: when is enabled shows *NETwork*

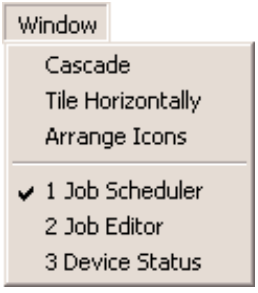
ARC: when is enabled shows *ARC*

Number of clients: shows number of connected clients and data connecting.

10.3 Title screen

Click by mouse to *View->View Title Screen* to enable or disable the welcome screen when you start Disc Manager. When you enable this feature on the menu item check mark before the title screen. When you disable the check-box is not there.

11. Window



Cascade - Displays opened windows in cascade
Tile Horizontally - Displays open windows horizontally
Arrange Icons - Order the minimised windows

- The Job Scheduler window is open and active
- The Job Editor window is open
- The Device Status window is open

11.1 Cascade

Click by mouse to *Window->Cascade* to arrange opened windows on your desktop. All Disc Manager windows are arrange ascending in a row, from left to right and from bottom to up.

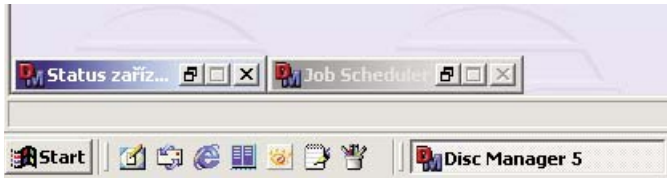
11.2 Tile horizontally

Click by mouse to *Window->Tile Horizontally*to arrange opened windows on your desktop. All Disc Manager windows will be arrange over each other.

11.3 Arrange ions

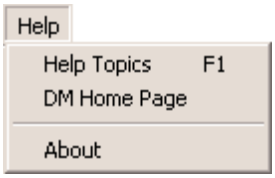
Click by mouse to *Window->Arrange Icons*to arrange closed (minimised) windows on the Disc manager window. minimised windows will move to the left down corner of the Disc manager window. See the following pictures:

Closed windows



Arranged windows

12. Help



Help Topics - Displays Help
DM Home Page - Open the Disc Manager Home page on www.copytrax.com
About - Displays about the Disc Manager

12.1 Help topics

The Disc Manager software contains independent Help system that provides comprehensive documentation for the Disc Manager software and more details. You can view Help in one of the following ways:

- Click the *Help Topics* in *Help* menu
- Press F1 when Disc Manager window is active

12.2 DM Home Page

Click by mouse to *Help->DM Home Page*This feature needs computer connectivity for the internet.

12.3 About

Click by mouse to *Help-> About* window appears in which you inform about producer (author) of the Disc Manager software. The sales and service business abroad and the user and the license key.

Press ESC or click on a cross in the upper right corner About this exit.

19. How to do . . .

The following chapters describes how to do, for example: how to insert a Job, how to delete a Job, how to modify the Job, how to create a Job, how to create a Job for write, how to create a Job for printing, how to load the image, how to create an image from the files, ..., and more.

19.1 How to read CD or DVD disc

1. Start the Disc Manager software
2. Check the Hardware settings, see chapter 8.1, next click to *OK*
3. Insert master disc into Input *Bin1*
4. Click by mouse to the menu *File --> Read Image* or *Read Image* button from the *Toolbar*
5. In opened dialogue box type the name for master disc and path to store it onto HDD. Next press *OK*
6. Select the recorder for reading the master disc
7. Choose reading speed 32X for data disc or 24X for audio disc
8. Click to the *Start* button. Duplicator will take disc from input Bin1 and insert it to the recorder.
9. After loading the image, click to *Close* button. Now the computer has recorded an image. A disk image is in the same format as the source disc.

19.2. How to compile the image from files

1. Click on the icon you start *Disc Manager*
2. Check your hardware and click *OK*, see section 8.1
3. On the toolbar, click on the *Disc Xpress* button
4. In the opened window, choose the type of compilation CD or DVD
5. Type the name (volume) for disc
6. Select the file system (for long names with graphic accents select the ISO9660 + Joliet)
7. Enter the name and location of the image to load
8. Check your settings if according to your requirements click *OK*.
9. In the new opened window (see up picture on the page 40) assemble your image
10. In the right window, choose the files and folders and mark them by clicking the mouse. See page 40, *Compilation* section
11. Drag and drop files and folders from the the right window to the left window
12. Follow the green bar at the bottom, which shows the size of the assembled compilation
13. Now you can add or remove files and folders into or from the compilation
14. Click on the menu at *Compile --> Create Image* to start creating the image of the compilation
15. After creating an image is displayed a message including the path where the image was saved
16. Click *OK* to finish
17. Click in the menu at *Compile --> Exit* to close the *Disc Xpress*

19.3. How to create Job for record only

To create a *Job* for recording you have to prepare image first, see chapter 19.1 or 19.2

1. Click on the icon you start *Disc Manager*
2. Check your hardware and click *OK*, see chapter 8.1
3. On the toolbar, click on the *Job Editor* icon
4. Click on the *Add* for create a new *Job*, see at the chapter 4.2.1.
5. Enter name of *Job*
6. Click to *Recording* bookmark
7. Enable recording (Make tick in small box before enable recording)
8. Browse in the HDD and select the recording image (with extension *.NRG or *.ISO)
9. Enable verification file (Make tick in small box before *Verify after recording*)
10. Enable Burn Proof (Make tick in small box before *Activate Burn Proof*)
11. Choose the recording speed, we recommend the 32X for data and 24X for Audio. For DVD please setup recording speed according to used media but you use recording speed lower than maximum
12. Click on the *OK* you create a *Job* for recording only

19.4. How to create Job for print only

To create a *Job* for printing must be prepared in advance of printing the print file (with extension *. PRN). The print file is created in a graphics program which you use. If you are using a graphics program *Label Designer* then to obtain a print file follow the instructions in the *Label Designer* user manual. To create a print job, you can use graphics files directly from the *Designer Label*and do not create a print file. This file has the extension *. DML.

1. Click on the icon you start *Disc Manager*
2. Check your hardware and click *OK*, see chapter 8.1
3. On the toolbar, click on the *Job Editor* icon
4. Click on the *Add* for create a new *Job*, see at the chapter 4.2.1.
5. Enter name of *Job*
6. Click to *Printing* bookmark
7. Enable printing (Make tick in small box before *Enable Printing*)
8. Browse in the HDD and select the printing image (with extension *.PRN or *.DML)
9. Click on the *OK* you create a *Job* for printing only

19.5 How to create Job for printing and recording

To create this *Job* must have a pre-prepared image in accordance with Chapter 19.3 and 19.4 and the previously created print file has the extension *. prn. The print file is created in a graphics program you use. If you are using a graphics program *Label Designer* then to obtain a print file follow the instructions in the *Label Designer* user manual. To create a print job, you can use graphics files directly from the *Designer Label*and do not create a print file. This file has the extension *. DML.

1. Click on the icon you start *Disc Manager*
2. Check your hardware and click *OK*, see section 8.1
3. Click on the icon *Job Editor*toolbar, you run the program
4. Click the *Add* button to create new *Job*, see. Chapter 4.2.1
5. Enter the name of the *Job*
6. Click the *Recording*bookmark
7. Enable recording (Make tick in small box before enable recording)
8. Browse in the HDD and select the recording image (with extension *.NRG or *.ISO)
9. Enable verification file (Make tick in small box before *Verify after recording*)
10. Enable Burn Proof (Make tick in small box before *Activate Burn Proof*)
11. Choose the recording speed, we recommend the 32X for data and 24X for Audio. For DVD please setup recording speed according to used media but you use recording speed lower than maximum
12. Click to *Printing* bookmark
13. Enable printing (Make tick in small box before *Enable Printing*)
14. Browse in the HDD and select the printing image (with extension *.PRN or *.DML)
15. Click on the *OK* you create a *Job* for recording and printing

19.6 How to insert a Job

To insert a *Job* into the *Job Scheduler*you must have pre-prepared *Job* in accordance with Chapter 21.3 to 21.5.

1. Click the *Add* button in the right part of the *Job Scheduler* window
2. Browse the required *Job* and click to select
3. Enter the number of copy
4. Choose the recording speed, we recommend the 32X for data and 24X for Audio. For DVD please setup recording speed according to used media but you use recording speed lower than maximum
5. Click *OK* to insert the job into the Job Scheduler

19.7 How to run a Job

1. To run the *Job* must be inserted at least one *Job* in the *Job Scheduler* window
2. When inserting more of *Jobs* - you will increase its priority
3. Click the mouse to select the *Job* you want to run first
4. Click by mouse to *Arrow Up*button to increase the priority (preference) or the *Arrow Down*button to decrease the priority (delay) in the *Job Scheduler* window
5. Click the *Start* button on the *Toolbar* to start all inserted *Jobs*. Next *Job* will be executed after the first *Job* finish.

TIP: After running, the *Jobs* are running from top to bottom as they are listed. If you need to increase or decrease priority for one *Job* (or more Jobs), you can change its priority by clicking the *Arrow Up*button to increase the priority (preference) or the *Arrow Down*button to decrease the priority (delay), right in the *Job Scheduler* window.

TIP: When you start the *Job* you will info about *Jobs* in the *Job Scheduler*window - the number of copy, the process and finish the job. When you insert the *Job* is displayed in black. When *Job* is running then will change colour to red. When finished, it will change colour to gray.

TIP: Keep CD or DVD discs in the input and output bins while process. Duplicator continuously remembers the number of disks in these bins. If you remove any discs during running a *Job* the some problem became. The duplicator does not recognise the level of filling bins. So it may happen that the duplicator will drop discs into the output bin from height. To reset the position of all bins to the default values, do it in the *Run --> Reset bin positions* when the *Disc Manager*is idle.

19.8 How to delete a Job

To better the summary of inserted *Jobs* you can delete the *Job* in *Job Scheduler* window. You can not delete a task that is running.

1. Click on the *Job* that you want to delete to highlight it
2. Click the *Delete* button in the right part of the *Job Scheduler* window*,* deleting it

19.9 How to edit a Job

You can edit the number of copy and recording speed with the inserted *Jobs* in the *Job Scheduler* window. In the running *Jobs* can be change the number of disks but partially only. Unable to set a smaller number than has been done.

1. Browse the *Job* and click to select
2. Click the *Edit* button in the right part of the *Job Scheduler*
3. Enter the number of copy
4. Choose the recording speed, we recommend the 32X for data and 24X for Audio. For DVD please setup recording speed according to used media but you use recording speed lower than maximum
5. Click *OK* to insert the modified *Job* back to the *Job Scheduler*

19.10 How to copy a Job

If you need to run a *Job* again, which is already finished, and is still in the list of *Job Scheduler,* you can simply copy, modify and run again.

1. Click to highlight the finished *Job*
2. Click the *Copy* button on the right in the *Job Scheduler* window
3. In the *Job Scheduler* window appears copy of the *Job*

Now, you can click the *Start* button on the toolbar to run the inserted *Job*, or click on the *Edit* button on the right side of the *Job Scheduler* window modify this job. You can specify the number of copy or change the recording speed.

19.11 How to create DMS file

To use scripts to control *Disc Manager* it is necessary to create a script file DMS or NWP. A description and a sample script file DMS (Disc Manager Script *. DMS) for the Disc Manager. Script file is a plain text file created in a simple text editor and saved as a text document, and is usually has the size of 150-200 bytes, and it has a extension *. DMS (e.g. RECPRN.DMS).

Recording image and printing the PRN file (e.g. recprn.dms)

```
[GENERAL]
NAME=recording+printing
COPIES=15
STATUS=0
ERROR=
[RECORDING]
IMAGE=test.nrg
SPEED=40
ERASE=0
VERIFY=1
[PRINTING]
LABEL=test.prn
```

For more information see at the Appendix A.4 Chapter.

A.1 Sample: Log file - Create Image

Cutaway LOG file:

DATE: 14.10.2011 08:29:02
DISC NAME: European Law
DESCRIPTION: Backup files 01.10.2011 01:00:02
DIRECTORY: 111014_082900_European Law
245 FILES WERE COPIED SUCCESSFULLY

i:_cti_me.txt
i:\autorun.inf
i:\files\000text.html
i:\files\001text.html
i:\files\002text.html
i:\files\003text.html
i:\files\082otazka.html
i:\files\083otazka.html
i:\files\084otazka.html
i:\files\085otazka.html
i:\files\086otazka.html
i:\files\087otazka.html
i:\files\187otazka.html
i:\files\188otazka.html
“
“
“
“
i:\files\189otazka.html
i:\files\190otazka.html
i:\files\grafika.html
i:\files\html1.png
i:\files\html2.png
i:\files\jakhtml.html
i:\files\jakhtml.png
i:\files\priklady.html
i:\files\styl.css
i:\files\texty.html
i:\files\title1.png
i:\files\title2.png
i:\files\title3.png
i:\files\title4.png
i:\files\title5.png
i:\files\top1.png
i:\files\top2.gif
i:\files\zakony.html
i:\index.html

0 FILES WERE NOT COPIED (because of problems with reading)
****

A.2 Sample: Log file - Job

Cutaway LOG file. You can see info about duplicator and every copy of disc.

```
06:28:13    ********************************************************************************
06:28:13    This logfile was created 27.10.05, at 06:28:13
06:28:13    Disc Manager version 5.1.11.29
06:28:13    License conditions:
06:28:13            Disc Manager is registered
06:28:13            License key: DM50-12345-12345-12345-12345-12345-12345
06:28:13            Possible autoloader: 00000000
06:28:13            Maximum count of recorders: 8
06:28:13            Maximum count of printers: 1
06:28:13            Autoloader mode is supported
06:28:13            Manual mode is supported
06:28:13            NET Server mode is enabled
06:28:13            serialisation is enabled
06:28:13    ********************************************************************************
06:28:14    Nero API version 6.6.0.12
06:28:14    ********************************************************************************
06:28:26    Autoloader type: Gamma 8    v.2.11 b4
06:28:26    Serial number of the autoloader: 55638429
06:28:26    Recorder 1: I:  (5,2)  PIONEER  DVD-RW  DVR-106D
06:28:26    Recorder 2: H:  (5,3)  PIONEER  DVD-RW  DVR-106D
06:28:26    Recorder 3: G:  (5,0)  PIONEER  DVD-RW  DVR-106D
06:28:26    Recorder 4: F:  (5,1)  PIONEER  DVD-RW  DVR-106D
06:28:26    Printer: IGA ODP 200 (HP type)
06:28:26    Memory free: 342 MB
06:28:26    Memory needed: 128 MB
06:28:26    HDD space for data (C:\Program Files\Disc Manager\disc manager\data\): 20 GB
06:28:26    Max. age for data (C:\Program Files\Disc Manager\disc manager\data\): 5 days
06:28:26    Now is used: 0 GB
06:28:26    Free space on drive C: 5 GB
06:28:27    ********************************************************************************
06:28:28    Start button pressed
06:28:28    ********************************************************************************
08:38:29    Job "Univerzita_CD4_Dys" (No. 0001)
08:38:29            Copy 1 of 100 finished
08:38:29            No record
08:38:29            Print label D:\ODP200_PrintFiles\Univerzita_CD4_Dys.prn
08:38:29                    Simulation disabled
08:38:29                    Record then print
08:38:29    ********************************************************************************
      "                                 "
      "                                 "
      "                                 "
09:51:58    ********************************************************************************
09:52:42    Job "Univerzita_CD4_Dys" (No. 0001)
09:52:42            Copy 90 of 100 finished
09:52:42            No record
09:52:42            Print label D:\ODP200_PrintFiles\Univerzita_CD4_Dys.prn
09:52:42                    Simulation disabled
09:52:42                    Record then print
09:52:42    ********************************************************************************
                                  "
                                  "
                                etc. (in turn one by one, up to last copy)
```

A.3 Error messages

List of error messages for duplicators: Alpha, Delta, Gamma, Omega, Samurai, DiscJet and Shuttle

Status	*Description*
0	low ink-level in printer
1	invalid command parameter
2	no disc at the position
3	wrong position parameter the source or destination position doesn't exist
4	right margin reached
5	left margin reached
6	lifter blocked - can't go top
7	lifter blocked - can't go down
8	init error - cannot initialise the loader
9	can't pick disc
A	moving error
B	timeout error
C	ERR_UNLOAD (not for Gamma duplicators)
D	ERR_END_BIN (not for Gamma duplicators)
E	power up initialization error
F	disc lost
G	ERR_POSITION (not for Gamma duplicators)
H	rotate CD error (rotation head is not yet implemented)
I	reject bin is full
J	drive error (can't open or close)
K	printer error (can't open or close)
L	reserved
M	disc not put (some problem with gripper)
N	door open (ne pro duplikátory Gamma)
S	rotator head not present (while trying to use rotation)
T	rotator bus is blocked
U	communication with rotator failed
V	communication with rotator lost (during transfer)
W	rotator is not responding

A.4 DMS structure

[GENERAL] - main body
NAME - name of the Job
COPIES - number of copy
INPUTBIN - 1-4 .. No. of the input bin (default is 1 - the first input bin)
OUTPUTBIN - 1-4 .. No. of the output bin (default is 1 - the first output bin)
STATUS - status of a Job
ERROR - description of error which occurred during the running the Job

[RECORDING] - parameters for recording
IMAGE - image name (if is inserted without the path then must be in the same folder as the DMS file)
DIRECTORY - folder for recording (you can use IMAGE or DIRECTORY, they don´t be use together)
VOLUME - name of the disc when the DIRECTORY is use
SPEED - recording speed (default = max.)
ERASE - 0/1 .. erase disc before recording? (default = 0)
VERIFY - 0/1 .. check the data after recording? (default = 0)
SIMULATION - 0/1 .. recording simulation? (default = 0)

[PRINTING] - parameters for printing
LABEL - name of printing file (if is inserted without the path then must be in the same folder as the DMS file)
MERGE - specify file contains an external texts for DML or BTW
BEFOREREC - 0/1 .. printing before recording? (default = 0)
SIMULATION - 0/1 .. printing simulation? (default = 0)

Job status and error:

[GENERAL] - main body
STATUS - status of the DMS script
ERROR - description of the error code

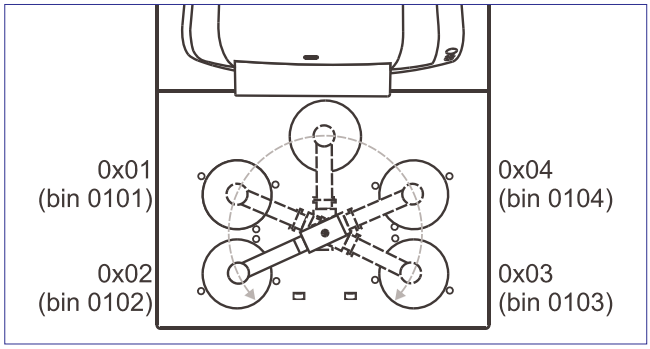
STATUS: 0 .. wait on a new file for Disc Manager
1 .. Disc Manager found DMS file
2 .. Job was add into Job Scheduler
3 .. Job is running (recording and printing)
4 .. Job finished
10001 and more.. error codes

STATUS=10001 - error = missing image for recording
STATUS=10002 - error = missing image for printing

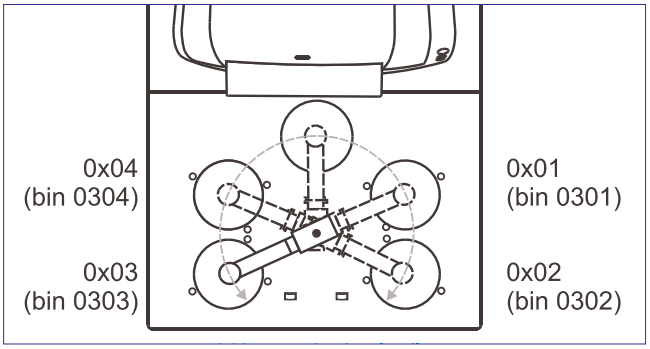
Input and output bins:

[GENERAL] - main body
INPUTBIN - 1-4 .. No. of the input bin
OUTPUTBIN - 1-4 .. No. of the output bin

In this case is necessary set bins into *Individual Bin Mode,* see at the zásobníků, viz kapitola 4.2.1 part *Setup*



Numbering of input bins



Numbering of output bins

Example:

1.) Recording image an printing prn file(e.g.. recprn.dms)

```
[GENERAL]
NAME=recording+printing
COPIES=15
STATUS=0
ERROR=
[RECORDING]
IMAGE=test.nrg
SPEED=40
ERASE=0
VERIFY=1
[PRINTING]
LABEL=test.prn
```

2.) Folder recording(e.g.. recdir.dms)

```
[GENERAL]
NAME=recording directory
COPIES=8
STATUS=0
ERROR=
[RECORDING]
DIRECTORY=e:\temp
VOLUME=test
SPEED=16
ERASE=0
VERIFY=0
```

NWP – Rimage Network Publisher Multi-Platform*(skripts for Rimage duplicators)*

Mechanism:

- NWP file is running through DMS
- DMS is ARC method, DM monitoring the ARC folder to insert DMS (*.dms) and NWP (*.nwp) files
- Procedure: 1) Found NWP file
  2) Rename NWP to INP (during running only)
  3) Execution script
  4) Rename INP to: - DON (done) if successfully
  - ERR (error) and create LOG file which contains description of error

It is necessary provide shared access for reading to another applications. Other application mustn't it lock this file otherwise problems occur.

Commands:

order_id	- Job name in the Job Scheduler
filetype=IMAGE	- image will be record (parameter contains the image)
filetype=PARENT	- folder will be record (parameter contains the folder)
file	- path to the image for record (NRG, ISO) or folder
volume	- name of the disc (volume) if not found files in the PARENT
label	- path to the printing file - PRN, DML, BTW, PDF
merge	- path to the specify file contains an external texts for DML or BTW
copies	- number of copy

1. General

The Artmaster 600 CD/DVD ink jet printer, based on the HP DeskJet paper printer from Hewlett Packard. The form feed is replaced by a compact disc drawer (Tray). The printer processes printable CDs or DVDs coated for ink jet color print. An additional electronic is integrated to access the additional sensors for the drawer.
The driver will install as ODP500 Series printer.

System Requirements:

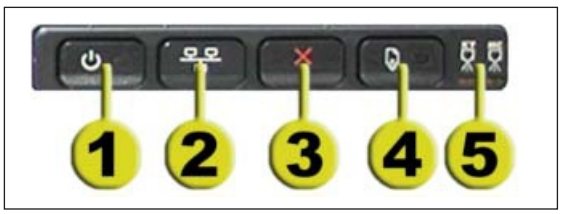
The PC that runs the Artmaster 600 needs one USB port.
Full speed (USB 1.1) or High speed (USB 2.0)
The Artmaster 600 operates with Windows only.

1.1 Printer Artmaster 600

Description:

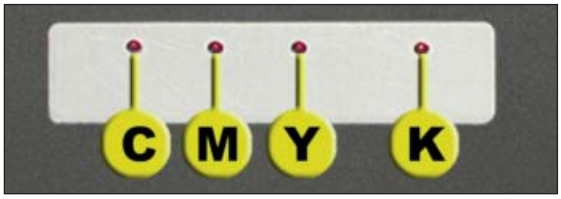
1. Service cover for exchange printers head
2. Status LED, (see below)
3. Ink cartridges
4. Opening for tray
5. Control panel and LEDs (see below)

Control panel:



1. Switch ON / OFF and LED
2. Open / Close tray
3. Cancel
4. Resume button and LED
5. Yellow LEDs, status of the heads

Ink-Jet cartridge LEDs

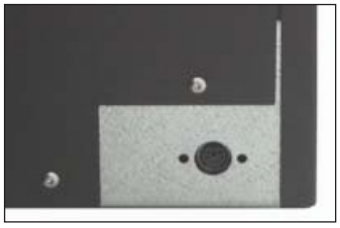


C. Status LED **C**yan ink-jet cartridge
M. Status LED **M**agenta ink-jet cartridge
Y. Status LED **Y**ellow ink-jet cartridge
K. Status LED blac**K** ink-jet cartridge

Rear side

On the rear side of the printer (on the left side) are the connectors for the power cord and the USB cable.

Rear side - left corner



On the rear side of the printer (on the right side) is a 6 pin Mini DIN connector (PS/2) to connect the printer to the autoloader.

Rear side - right corner

1.2 Description of the control panel

Power switch and LED

With the Power Button you can switch the printer on and off. After pressing the power button, you have to wait up to 2 minutes, until the printer has finished his initialisation. The Power LED blinks when printer is busy and printing data is being processed.

Open / Close tray

When you press this button you can open and close the printer tray.

Cancel

When you press Cancel button you can cancel the actual print jobs.

Resume

The Resume LED is blinking, when there is a print job, but no media in the tray. The print job has to be cancelled with the Cancel button (X). Put a disc into the tray and send the printing data again.

This LED is blinking also in the case of an error. Together with green power LED it will show an error code. Please refer to section *Appendix* in this manual.

Head Status LEDs

When this LED is blinking, the printer is not able to print. He cannot react to commands from outside. Moving the tray is not possible and also the Tool „Printer Service Terminal“ is no longer working. You have to bring the printer out of this error state first, before you can continue.

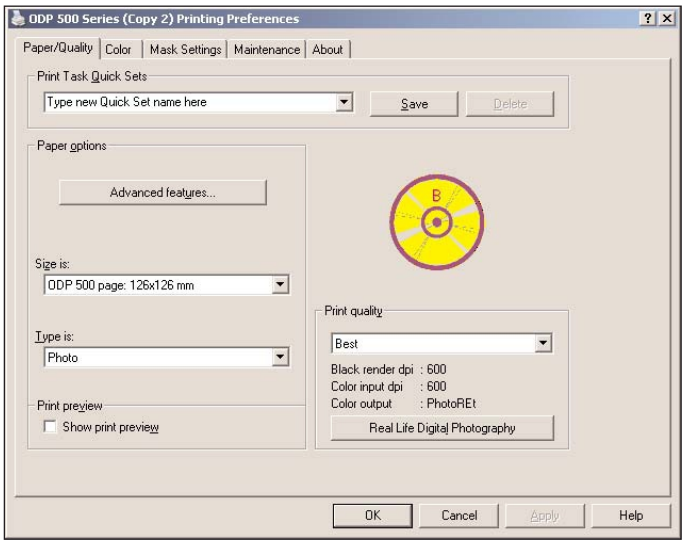
2. Printer Properties

The printer software, which is called printer driver sends the printing requests from the different applications to the printer. Many options are possible to modify the printing data which will be sent to the printer. To achieve best results, it is necessary to make some tests with different options.

The printing driver software consists off well known MS Windows functions and some special functions in the Maintenance dialog.

Please open the *Properties* of the printer. Click to *Start -> Settings -> Printer and Faxes*and now click by right button on the *ODP-500*and next click by left button to *Properties*. The following *Message Box* comes up on the screen, see next chapter.

2.1 Paper/Quality



Print Task Quick Sets: The current settings will be saved with the option

Advanced Features: *The „Advanced Features“ allow you to set the ink volume and the dry time. These settings are depending very much on the chosen print quality and print mode.*

Size is: The SULQWHU supports the CD/DVD format 120 x 120 mm. The page size of the printer is: 126 x 126 mm, That means there is a 3mm border. The printing has to be centered. Smaller media is possible with proper templates and settings.

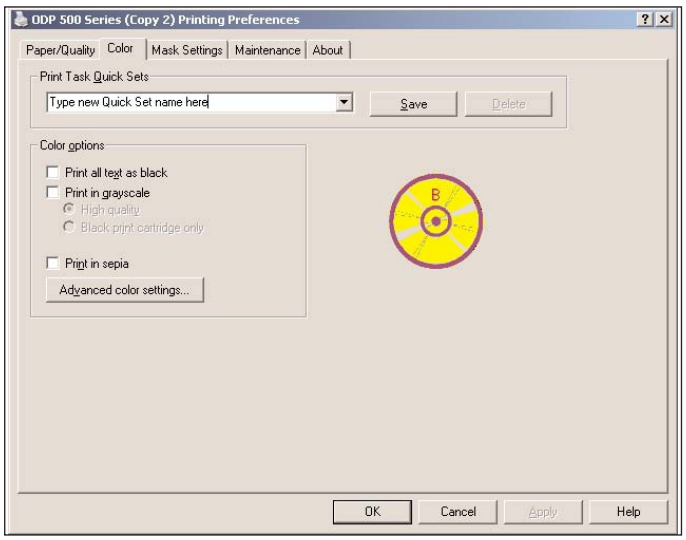
Type is: The possible print modes are: *Draft, Text, Graphic a Photo*. We recommend the *Photo*.
Note: The print mode „Photo“ will not use the black ink. In that case, grey color is mixed by the three colors CMY.

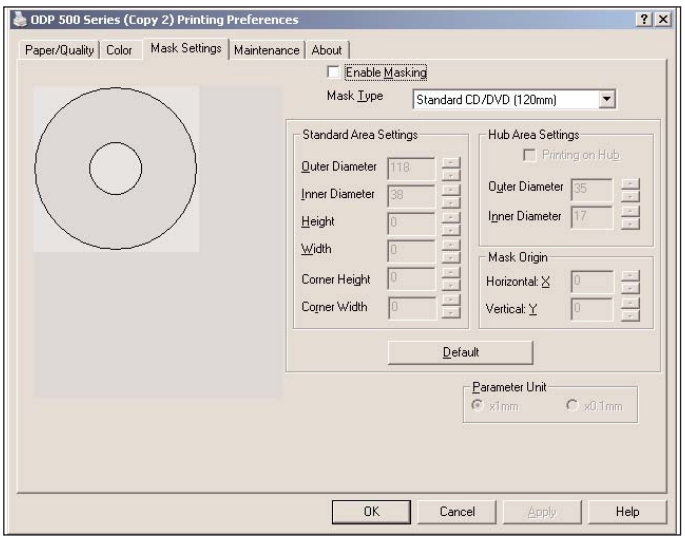
Print preview:when printer is used with the autoloader then this possibility ***must be OFF!!!***

Print quality: The possible print modes are: *Fast, Normal, Best a Maximum dpi.* We recommend the *Best.*

Real Life Digital Photography:this button enables the possibility to optimise the photo printing.

2.2 Color and Mask Settings

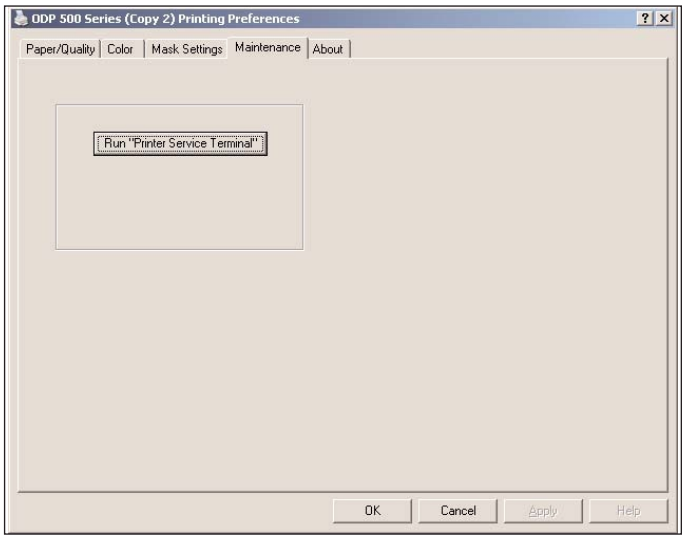




The *Colour* dialog is the main dialog to modify the colour settings.

The dialog “Mask Settings” allows you to fit the print image onto the different possible media sizes.

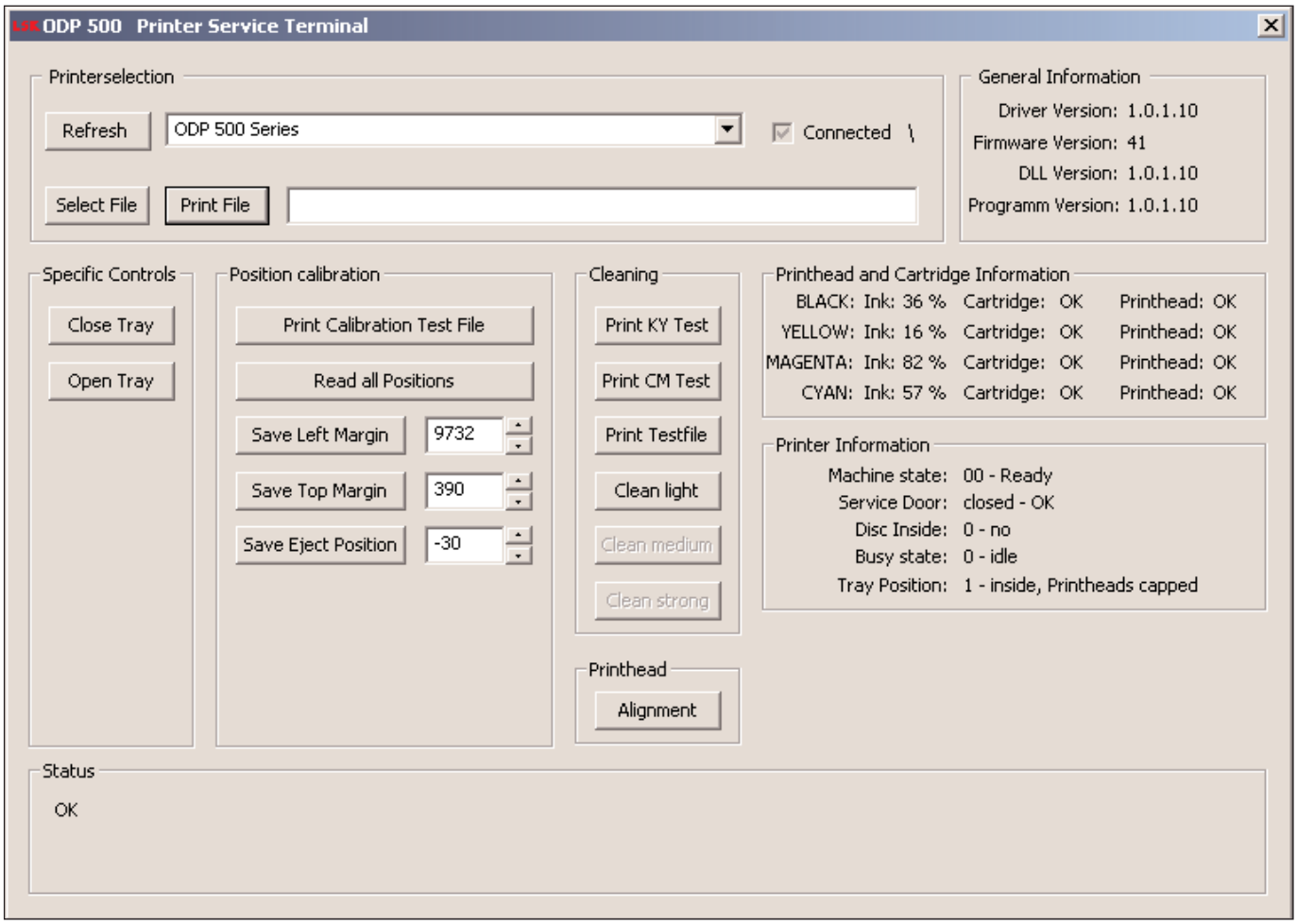
2.3 Maintenance



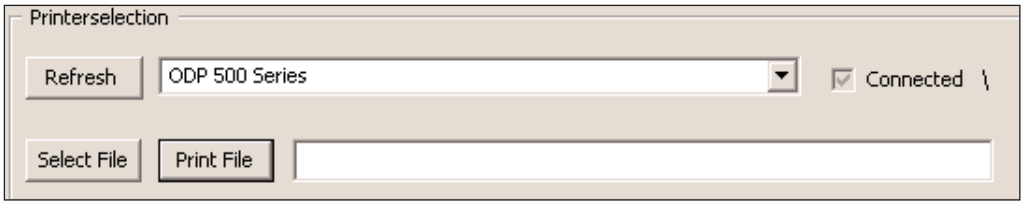
The dialog *Maintenance* helps you to set and check the physical options of the printer via the *Printer Service Terminal*

Click to *Terminal Printer Service* button for open the terminal.

2.4 Printer service terminal

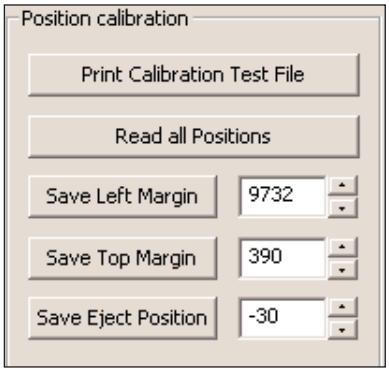


Printer selection - The proper printer will be selected automatically, while starting the tool, if the printer is switched on and connected. With the button *Select File* you can select print files (*.prn) to print them via the *Print File* button. See pictures on the next page.



The small line next to the Text *Connected* shows if the printer is accessible. If yes, the line will rotate slowly.

Specific control - The button „Open Tray“ will open the tray, the button „Close Tray“ will close the tray of the printer. If the printer is busy, or in an error condition, these button are out of function.



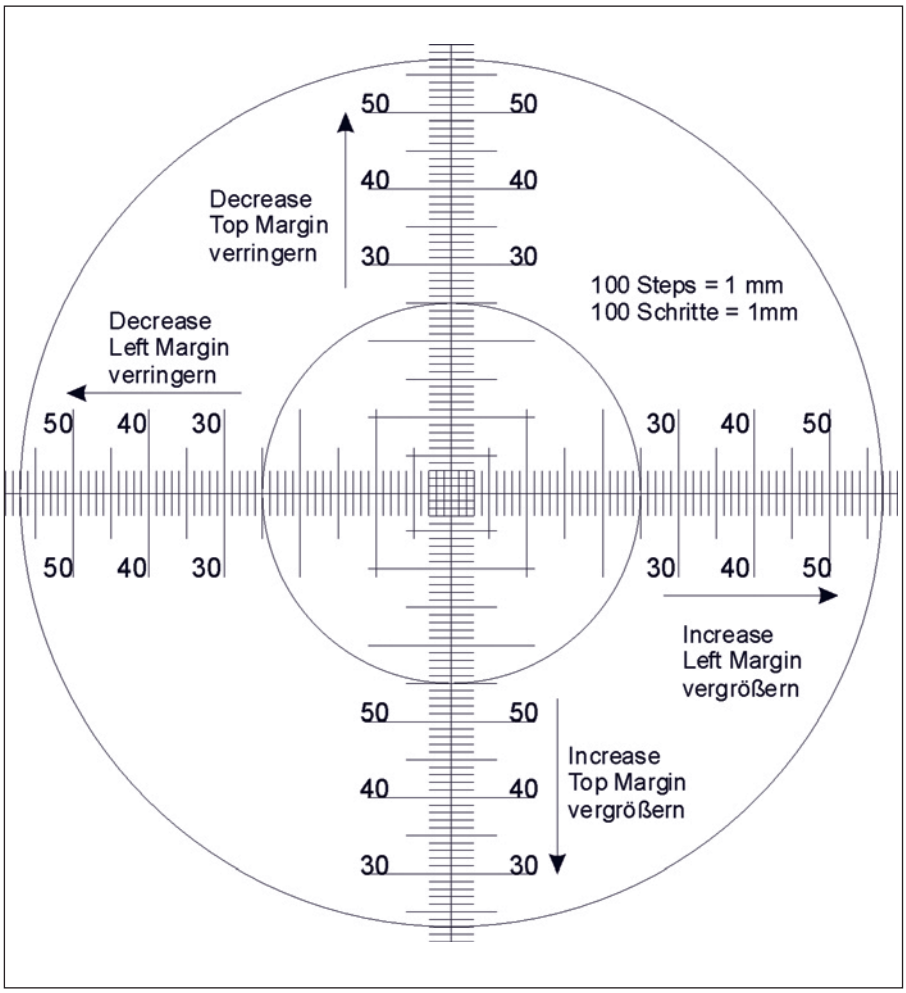
Position Calibration This group of functions gives you the possibility to centre and calibrate the print out.

Pressing the button „Print Calibration Test File“ will print a specific file which enables you to centre the print out via the Margin settings.

Look at the printed image and figure out the offset to the actual margin settings. A distance of 1mm is equivalent to 100 steps.

Add the offset you need to the actual margins and save the values via the corresponding button.

The „Eject Position“ is the position where the tray stays when the tray is open.



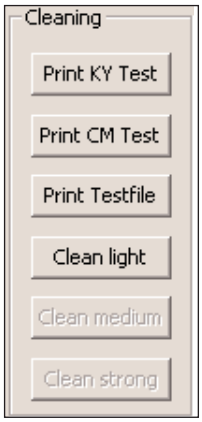
Printing image - shows the values that say how and by how much and which direction is shifted from the print media. Or if it is exactly in the middle.

A value of 1 mm corresponds to a value of 100 steps.

They add the value, or subtract the values listed in the windows dialog *Position Calibration*.

Printer calibration - the printer properties in the *Maintenance* tab, run the *Printer Service Terminal*. After reading the values, click *Open Tray*. When tray is out insert Printable media. Click on the *Close Tray*. Tray will drive inside the printer. Now click *Print Calibration Test File.* The inserted media to print the cross hairs, see image on the left. Read the value of media in the direction which has to move the print media to the print. was in the middle. The lower this value or increase values in the *Left Margin* field or *Right Margin*. After entering values, click the *Save* button for *Left Margin* or *Top Margin* to save entered values. Repeatedly press the cross hairs *Calibration Test Print File* precisely calibrates the printer.

Note: Remember that now you have to customize and print the graphics program you use. Calibrate a template in a graphics program which you use, such as label in the Label Designer, template in Corel, etc. ..



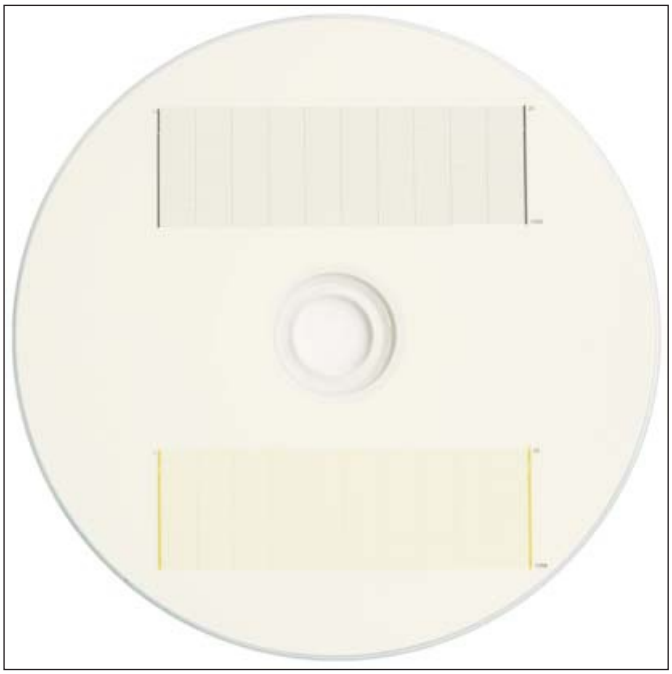
Cleaning - The buttons *Print KY Test* and *Print CM Test* will print some test patterns which shows the quality of the print heads.

If some lines are missing in the print out, the corresponding nozzle in the print head has a problem. But the print head is still OK, when only a few nozzles have a problem. Only if there are more nozzles missing, you will see it in the print out as missing lines.

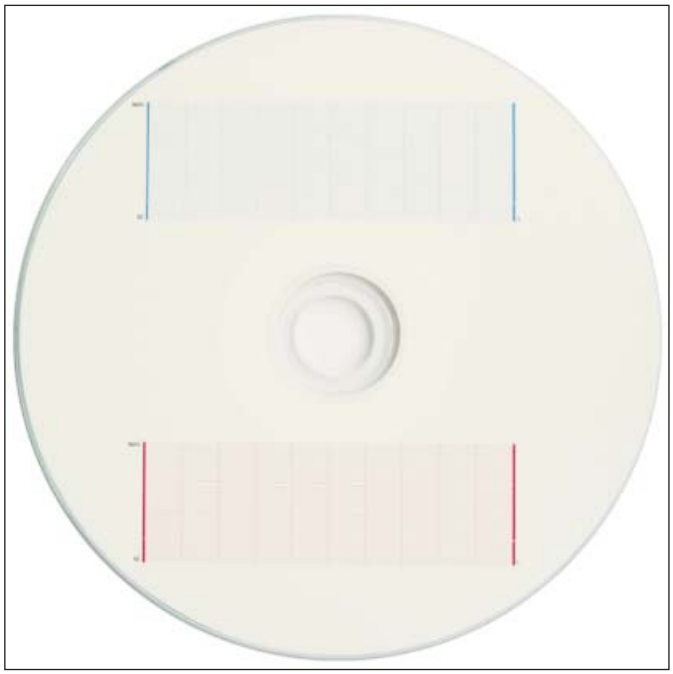
Normally it is possible to reactivate a problematic print head with the cleaning functions below.

Pressing the *Clean …*buttons will clean the print heads. You have to start with *Clean light*to enable the other cleaning functions. This is to avoid damaging the print heads while cleaning.

With the button *Print Testfile*you can start the print of a test image to check the result. We recommend to print this file once after a cleaning process.



*Printed test for the head KY (blac**K**, **Y**ellow)*

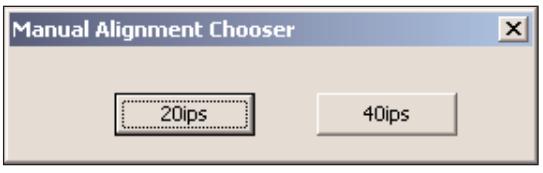


*Printed test for the head CM (**C**yan, **M**agenta)*

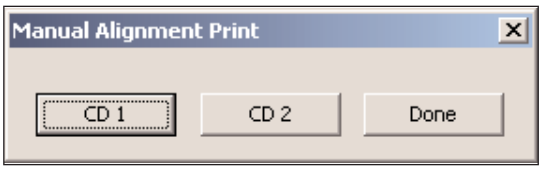
Alignment - This button will start the print head alignment process.

Note: *When you start the alignment process, you have to finish it after a certain point. Otherwise the actual values will be overwritten without proper new values. Therefore the first dialog after starting the alignment gives you the chance to quit the alignment process before the actual values are overwritten.*

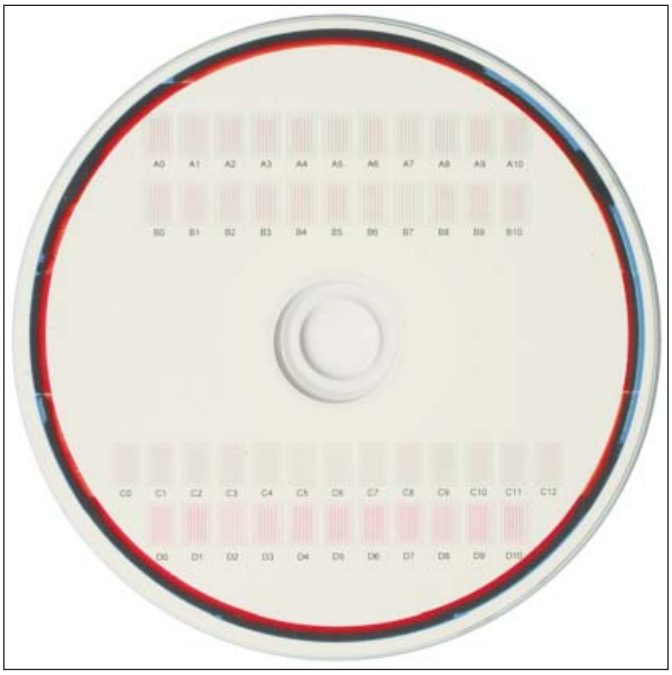
Prepare two printable CD, one insert into the printer and click to the *Alignment* button. Next click to *20ips* button and next click to *CD1* button. When printer stops exchange the CD in the printer and click to *CD2* button. Remove the second CD from the tray.



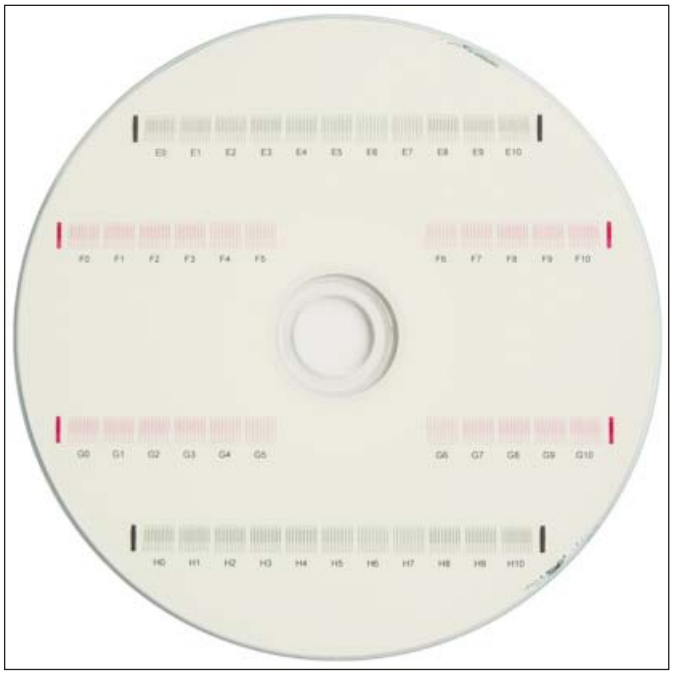
Quality print option



Run print alignment

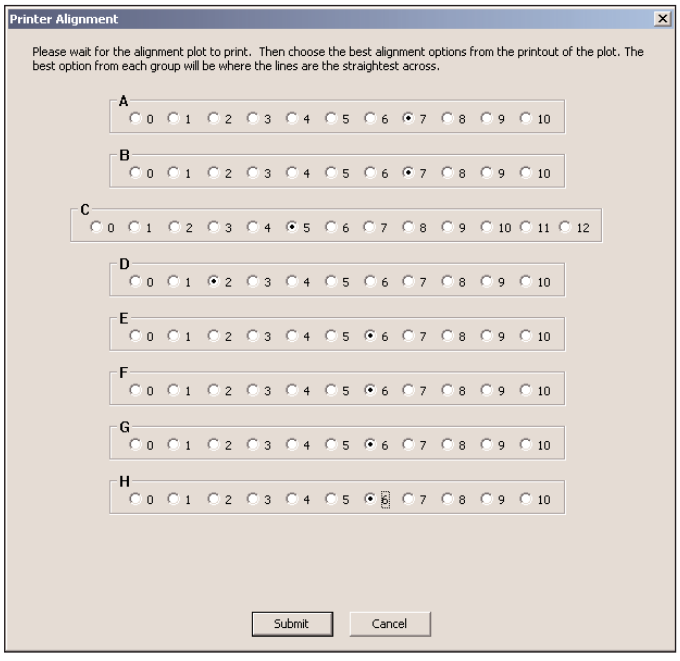


Printed Alignment for A - D (CD1) groups

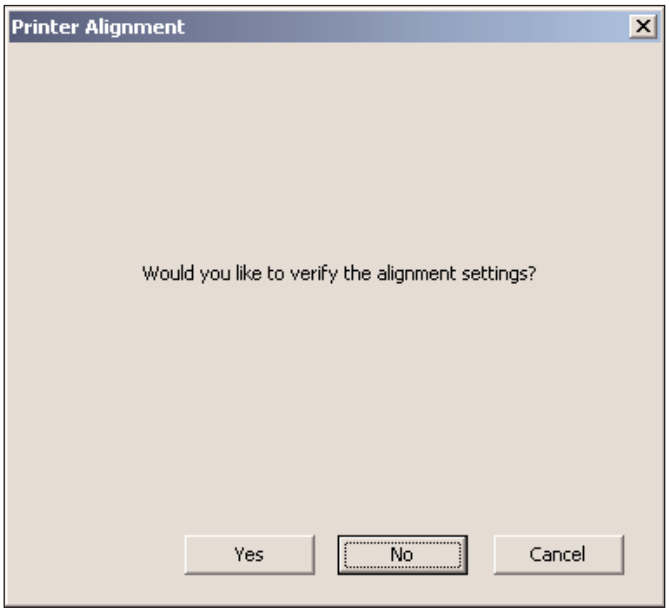


Printed Alignment for E - H (CD2) groups

Have a look at the printed CD and set (tick) individual frame (A, B, ..., H) Tick according the lines in group are straightest across. For example - have a good line to register the position of A8 in the box corresponding to the number of A8 dialog box, click the mouse. In the field point is displayed. Areas with a high content of ink (the perimeter of the disk, or print labels before), is used to clean the ink nozzles. Printing Thin lines are then very clear.



Individual frame



Check repeat?

Click on *Submit* finish entering values. Now, in the next dialog box, click the *Yes* button, you can reprint two CDs with test patterns. Use of two additional Printable media. In this case should be printed groups (with the best straightest across) in the middle of the CD. Click to *NO* to complete the heads printer alignment without re-printing. Click to *Cancel* is not recommended because the printer memory will hold zero (memory for printhead alignment will reset). You will need to run the printhead alignment again and complete it correctly.

To print to align the print heads are identical to *20ips*and *40ips.* Printable media consumption is 2 + 2 to *20ips*and 2 + 2 for *40ips*.

3. Ink Cartridges

The cartridges for the printer are especially optimised and registered cartridges, which guaranties a maximum quality of the printing. To ensure such a high quality of the cartridges and the ink, you can not buy these cartridges in a regular store. You have to buy the cartridges from your distributor.

3.1 Status LEDs

Normally, when all cartridges are installed and filled, the LEDs are switched off.

When the ink inside a cartridge is les than 20% to 25% the corresponding LED went on and illuminates steadily.

The LED is blinking, when the ink inside the cartridge is empty, or when the cartridge is defective or wrong placed.

If one or more wrong cartridges are installed, these LEDs may light up while the tray is moving. In this case, the printer is not able to print. You have to replace the Cartridge(s) with proper ones.

When one or more of these LED are blinking, the printer is not able to print. He cannot react to commands from outside. Moving the tray is not possible and also the Tool *Printer Service Terminal* is no longer working. You have to bring the printer out of this error state first, before you can continue.

More about the status LED ink cartridges you can read in the Appendix.

3.2 Replacing cartridges…

Before buying replacement cartridges, verify the correct part numbers.

Damage that is directly attributable to modified or refilled cartridges is specifically excluded from the printer's warranty coverage.

If the printer is switched off, no additional action is required, just replace the cartridges.

If the printer is powered on, open the service cover and let it open. The Power light and the Resume light are on now, and the ink pump is deactivated. Replace the cartridges now and close the service cover after that. Wait until the printer has recognized and initialised the changed cartridges.

4. Replacing Print heads…

Before buying replacement print heads, verify the correct part numbers.

Damage that is directly attributable to modified or refilled print head or cartridge is specifically excluded from the printer's warranty coverage.

Open the service cover (1), see page 1, and let it open. Press the Resume button (4), see page 1, for at least 3 seconds. The print heads will move now slowly to the left service position. The Power light (1) and the Resume light (4) are on now, and the ink pump is deactivated. Replace the print heads now and close the service cover after that. Wait until the printer has recognized and initialised the changed print heads.

1. Installation

Installation of approved additional ink cartridges for printer Artmaster 600.

List of parts:

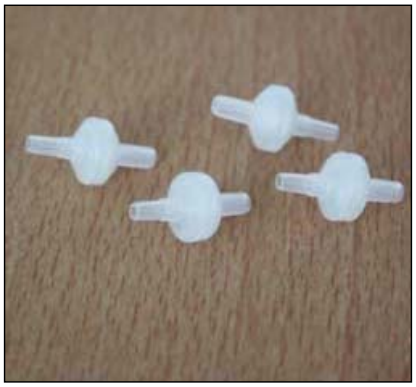
1 pcs Complete interconnected ink tank system (4 pcs tanks, 4 pcs cartridges, 4 pcs hoses)
4 pcs Air filters for the ink tank
4 pcs Funnels for ink refills
1 pcs Bottle of 1 litre Cyan ink
1 pcs Bottle of 1 litre Magenta ink
1 pcs Bottle of 1 litre Yellow ink
1 pcs Bottle of 1 litre Black ink
1 pcs Empty bottle 1L for waste ink (*)

If your printer isn't equipped with a waste ink bottles (*), you will obtain follows:
1 pcs syringe
1 pcs plastic pipe for exhausting waste ink

1.1 Identify parts

Tanks

Cartridges


Air filters

Funnels

Syringe

Plastic pipe

Bottle of ink

Bottle for waste ink

Complete system

1.2 Start

At first you must fill the additional tanks. For this purpose, prepare a paper box. Best suited lid from a shoe box or a piece of A4 packaging labels. Paper box well absorbs any spilled ink.

Open a bottle of ink and pierce aluminium safety seal. Make two holes one above the other. One small (2 mm) for air intake and larger (about 6 mm) for the second pouring of ink, see figure below. You can use cream napkin around the neck of the bottle. The bottle stays clean.

Insert the ink tanks and cartridges in the box. Prepare the bottles of ink and 4 pcs air filters, please. All filters fit into smaller holes in the top of the tanks. See the figure below. Depending on the colour ink tank pour the same colour ink. Follow the same colour labels on the bottle and tanks. Each tank has a silicon plug marked with the same colour as a label below. Each bottle of the ink is marked name of the ink.

Warning - it is absolutely necessary to pour the colour into the correct tank.

Remove the plug from the tank of the colour silicone into the hole and insert funnel as shown:
Remove the correct color plug from the tank and insert the funnel into the hole, as shown (for cyan):

The first fill about two-thirds of ink:

Remove funnel and return silicone plug. At this point, has been slowly ink poured over the tubing from the tank to the cartridge.:

The cartridge overflowed now only a small portion of the ink because it prevents a closed vent on cartridge. The vent is closed by a small silicone plug (coloured). It opens only at the first fill. To fill the cartridge is necessary remove the coloured plug (on the top of the cartridge) and returns when ink is in the top into the cartridge.

ATTENTION! The ink flows into the cartridge quickly, so remove the plug only one tank and watch the fill ink into cartridge overflow and return the plug. Removed the cyan plug, as shown:

In order for the ink pour into the cartridge is necessary to ink tank was higher than the cartridge.Gradually fill the all cartridges (CMYK). When overflow of ink, it is necessary to clean the tank or cartridge.

2. Cartridge installation

Turn off the printer. Place the ink tanks on the Artmaster 600 printer. Individual ink cartridges put into position in the Artmaster 600 printer. Turn on the printer. After initialization is finishing you can use the printer.

Installed cartridges

Filled tanks

Installed cartridges and tanks, the printer is ready

Status of ink that has been previously indicated by LEDs for each ink is invalid from this time. LEDs will either be light or dark. Status of inks in the terminal driver will also not works - will be show zero or wrong value.

Note: When status LED not lights and driver shows any value of ink then chip in the cartridge isn't zero. After some time the status LED lights and driver will show zero.

From this moment, is responsible for a sufficient ink in the tanks and cartridges user of the printer.

3. Waste ink in the printer Artmaster 600

When using an inkjet printers is necessary to the empty waste ink in the service station. The printer cleans the heads and ink falls into the service station. From time to time you need to empty the service station. Otherwise the ink can flows out from the printer.

3.1 Empty the Service station

If your printer is equipped with an additional bottle for waste ink, as showns on the left, you do not take care of waste the ink inside the Artmaster 600 printer. Ink continuously overflows into extra bottle.

If your printer is not equipped with an additional bottle for waste ink, send the printer to clean to the service. It is best to send the printer to clean once a year. For service contact your local dealer.

3.2 Disposal of the waste ink

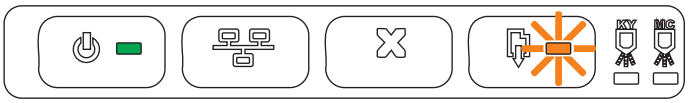
Do not pour ink from a bottle although not classified as a dangerous but it is important to ecological liquidation.

For ecological disposal follow these directions:

- ►Order from your dealer new bottle for waste ink but without valve, see to the left picture
- ► Unscrew the valve cap with a full tank and screw it on an empty tank
- ► Cap without valve should be closed bottle with the waste ink. Fixed the cap by self-adhesives strip.
- ► Wrap the bottle with waste ink in a suitable package and send it to your local dealer. The bottle in the package can not be damaged during handling and transport.

If you want to ecological liquidation the waste ink yourself you can hand over the bottle into company that deals with environmental waste disposal.

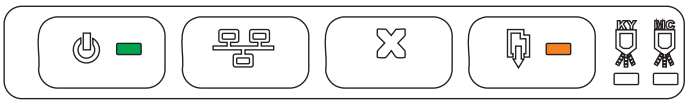
The Power light is on and the Resume light blink



The printer is out of media

- Delete the print job with the Cancel button **X**, put a disc into the tray and send the print job again..

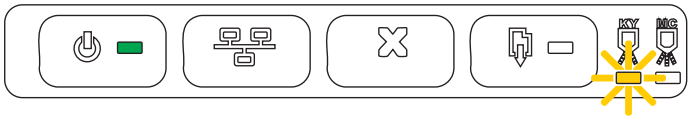
The Power light and the Resume light are on



The service cover is open or not closed correctly

- Close the Service cover.

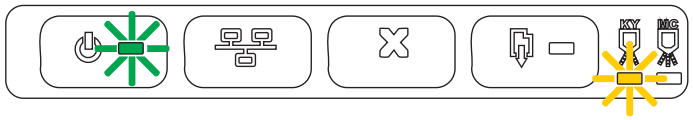
The Power light is on, and one or more of the print head lights blinks



One or more print heads are missing

- Install the print head indicated, and print again.

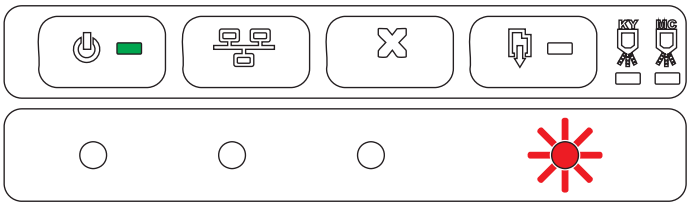
The Power light, and one or more of the print head lights blinks



One or more print heads are faulty or need attention

- Ensure the print head indicated is properly installed, then try to print again.
- If the error persists, replace the print head indicated.

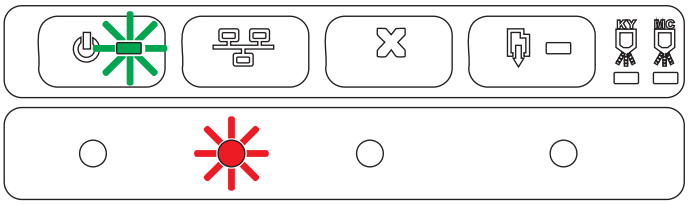
The Power light is on, and one or more of the cartridge lights blinks



One or more cartridges are missing, or empty

- Install the cartridge indicated, and print again.
- If the error persists, replace the cartridge indicated.

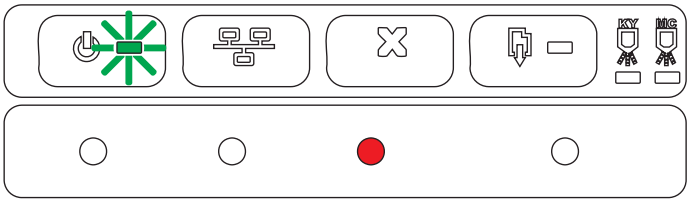
The Power light blinks, and one or more of the cartridge lights blinks



One or more cartridges are faulty or need attention

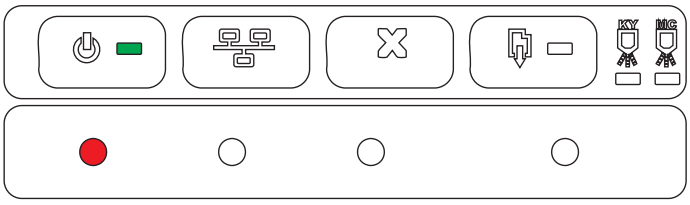
- Ensure the cartridge indicated is properly installed, then try to print again.
- If the error persists, replace the cartridge indicated.

The Power light blinks, and one or more of the cartridge lights are on



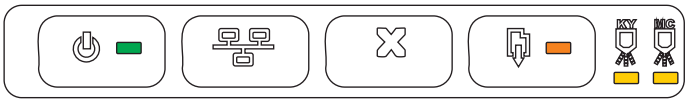
- One or more cartridges are low on ink (less than 20 to 25 %)
- No action required.

The Power light on, and one or more of the cartridge lights are on



- One or more cartridges are low on ink (less than 20 to 25 %)
- No action required.

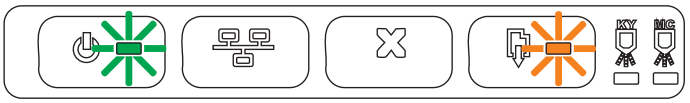
All lights are on



A non-recoverable error has occurred

- Disconnect all cables (such as power cord, network and USB cable). Wait about 20 seconds and reconnect the cable.
- If the problem persists, contact your service provider.

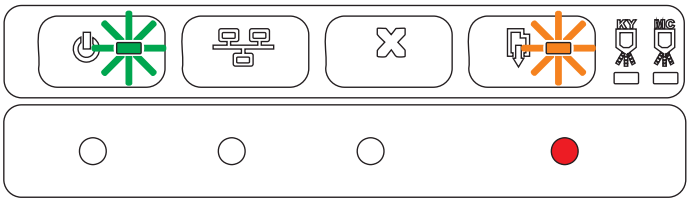
The Power light and the Resume light blink



Sensor error

- Delete the print job, switch off the printer, open the top cover and clean the encoder. If problems persist, replace the encoder.

The Power light and the Resume light blink, and one or more of the cartridge lights are on



The cartridge chips require resetting

- Press the following button sequence to continue printing:
  - -Press (and hold) the Power button
  - -Press the Resume button three (3) times
  - -Release Power button.

The product DVD lists our available lines of support should you need to ask a question not overed by this section.

Print

Media:	CD and DVD discs. Outer diameter 120 mm and inner diameter 15 mm (hole) with printable surface. Printable layer is typically from the inner diameter of 18 mm to 119 mm outside diameter. The smallest and largest size Printable layer is given by the manufacturer of the CD or DVD media.
Printing Method:	CMYK, uses four separate, replaceable ink cartridge
Size of print:	Print maximum dimension is 125 x 125 mm
Ink cartridges:	Cyan #040 1000 001, Magenta #4000 3522, Yellow #4000 3521, Black #4000 3520
Printing Head:	Black / Yellow #4000 3510, Magenta / Cyan #4000 3511

Diameter

Width:	495 mm
High:	200 mm
Depth:	445 mm

Weight

With standard ink:	16,3 kg
With external ink:	21,5 kg, including 4 litre ink - CMYK

Power

supply system:	230V, 50Hz
Consumption:	80 W

Operating conditions

Temperature:	18 up to 38 °C
storage temperature:	5 up to 50 °C
Working conditions:	The printer is designed for use in office type spaces

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ENVIRONMENTAL

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For support tel. UK: 0844 815 6225 Intl: +44 1954 212200
e-mail: support@copytrax.com

Copytrax Technologies UK Ltd.
35 Dry Drayton Industries
Scotland Road
Dry Drayton
Cambridge
Cambridgeshire.
CB23 8AT
United Kingdom.

Telephone UK: 0844 815 6225
International: +44 1954 212200

Fax UK: 01954 211950
International: +44 1954 211950

Web www.copytrax.com
e-mail info@copytrax.com

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